

Report No.:

Test Time: 2025/5/19 16:41:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL230D090-15W
Lamp Type:
Luminous Width: 88 mm
Luminous Length: 88 mm
Luminous Height: 55 mm

Voltage(V): 220.80 V
Current(A): 0.0770 A
Power(W): 15.74 W
Power Factor: 0.9170
Lamp Luminous Flux: 1599.60

Photometric Results

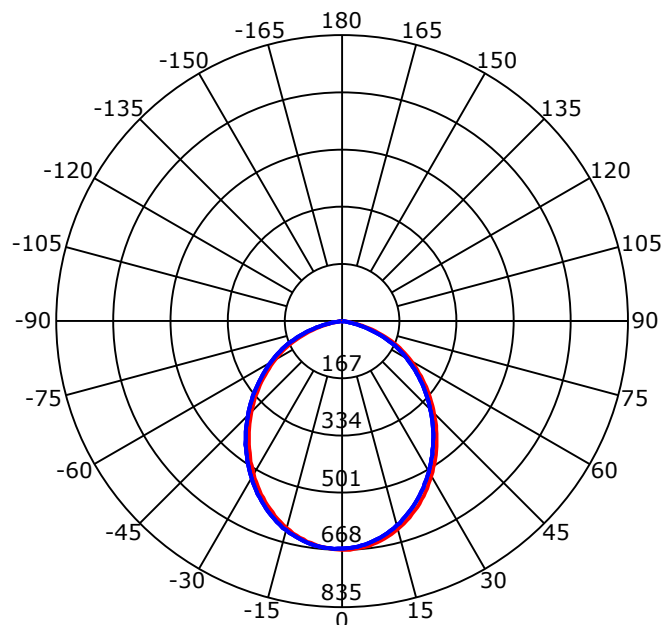
CIE Class: Direct
Luminaire Luminous Flux: 1599.597 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.60 lm/W
Beam Angle(50%) C0-180,C90-270: 98.8,98.9
Field Angle(10%) C0-180,C90-270: 151.8,151.8
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 668.07 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 668.02 cd
Effective Luminous Flux: 1570.15 lm
ERP(ϕ use)(120deg): 1329.86 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 98.8 deg,98.9 deg

C0-180 — C90-270 —

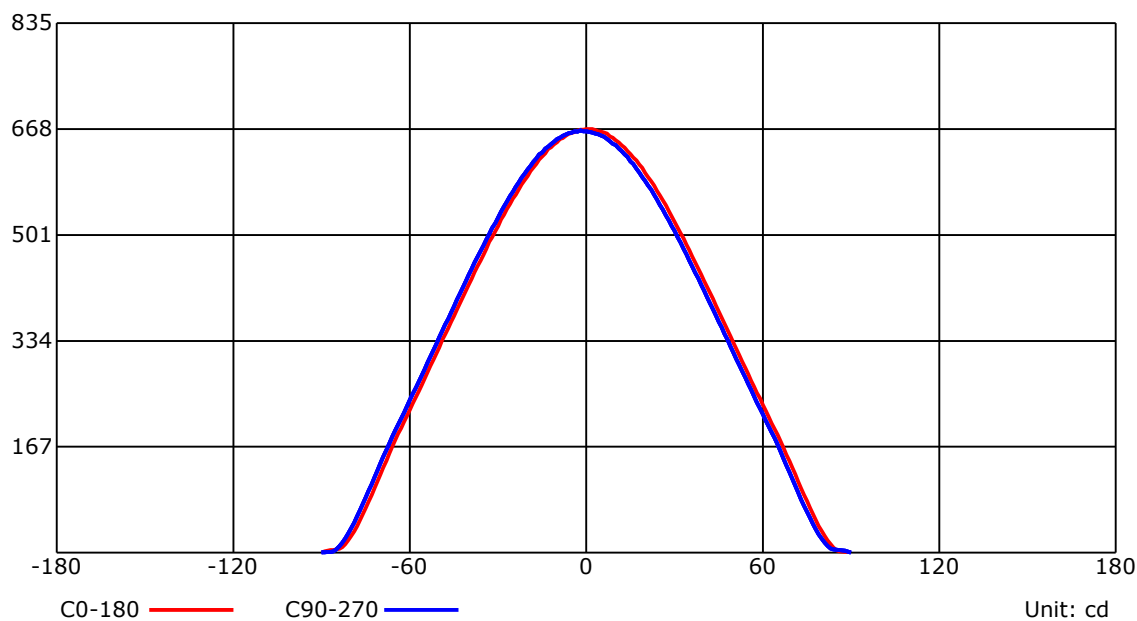
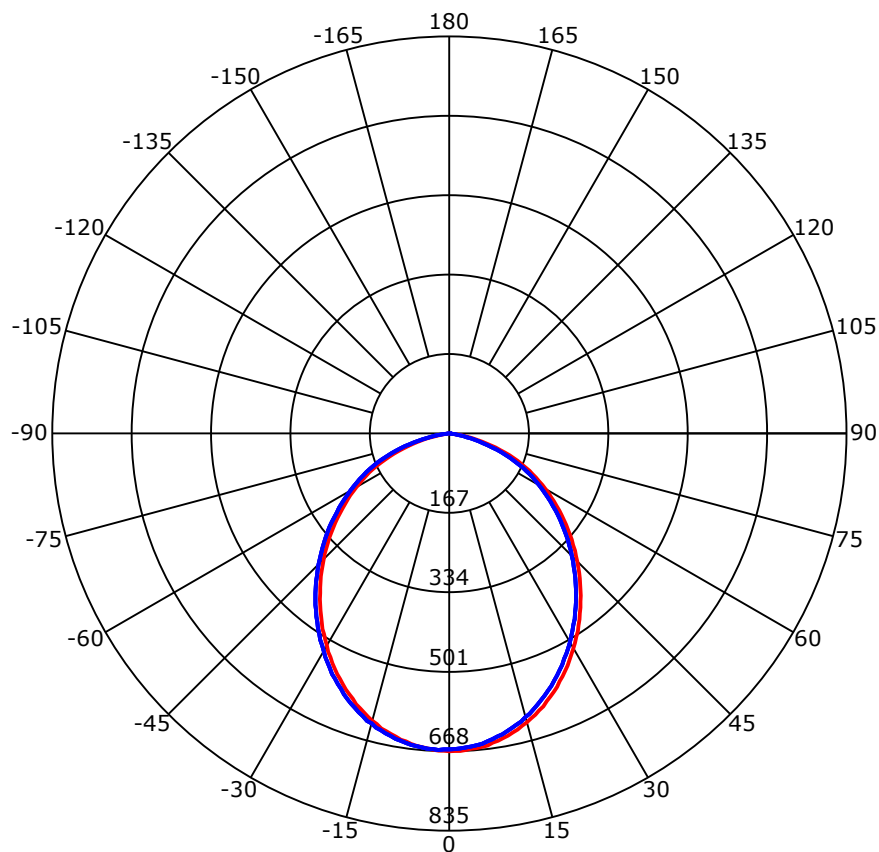
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/19 16:41:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/5/19 16:41:24

Luminous Intensity Distribution Curve



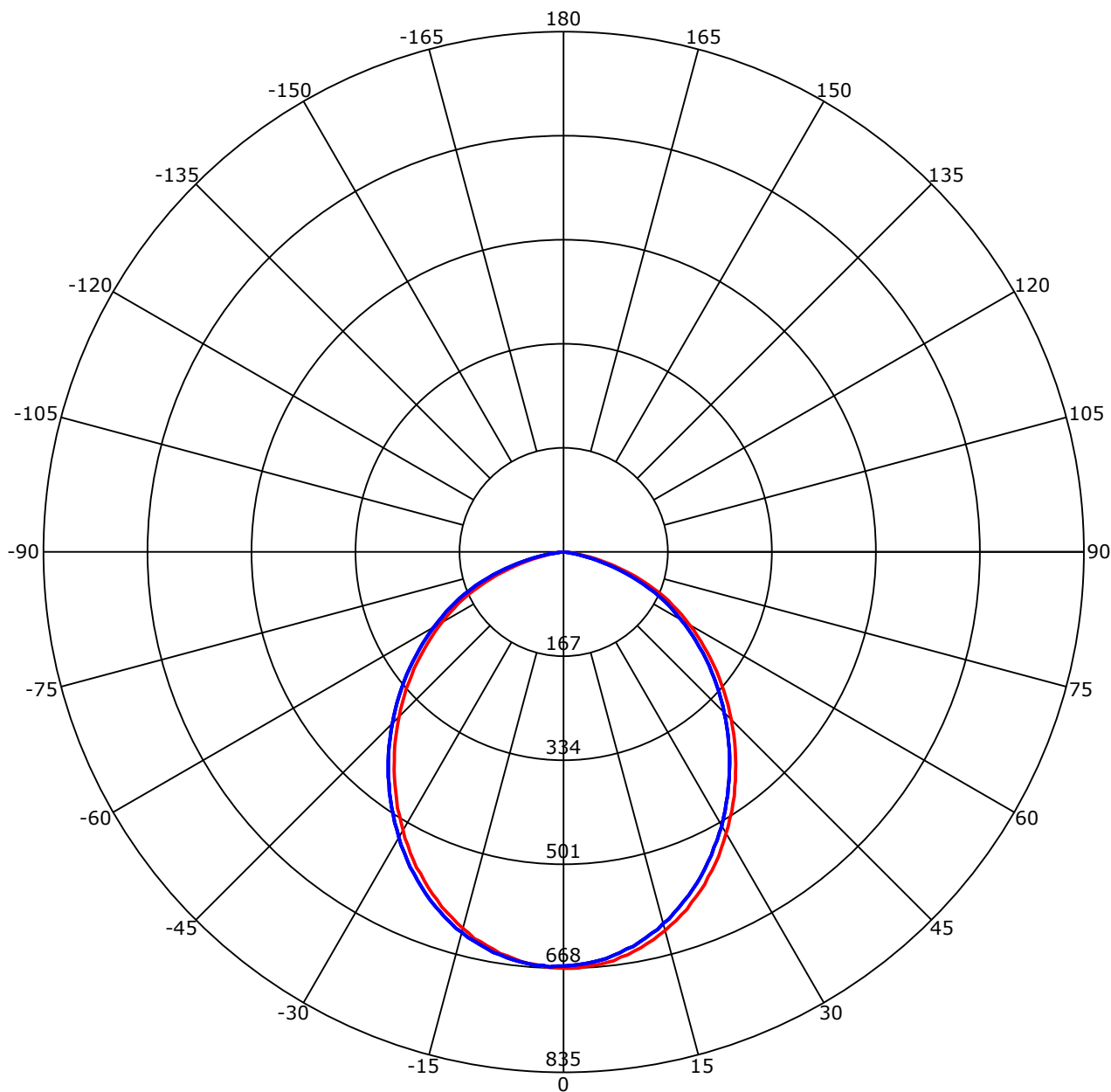
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/19 16:41:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/19 16:41:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

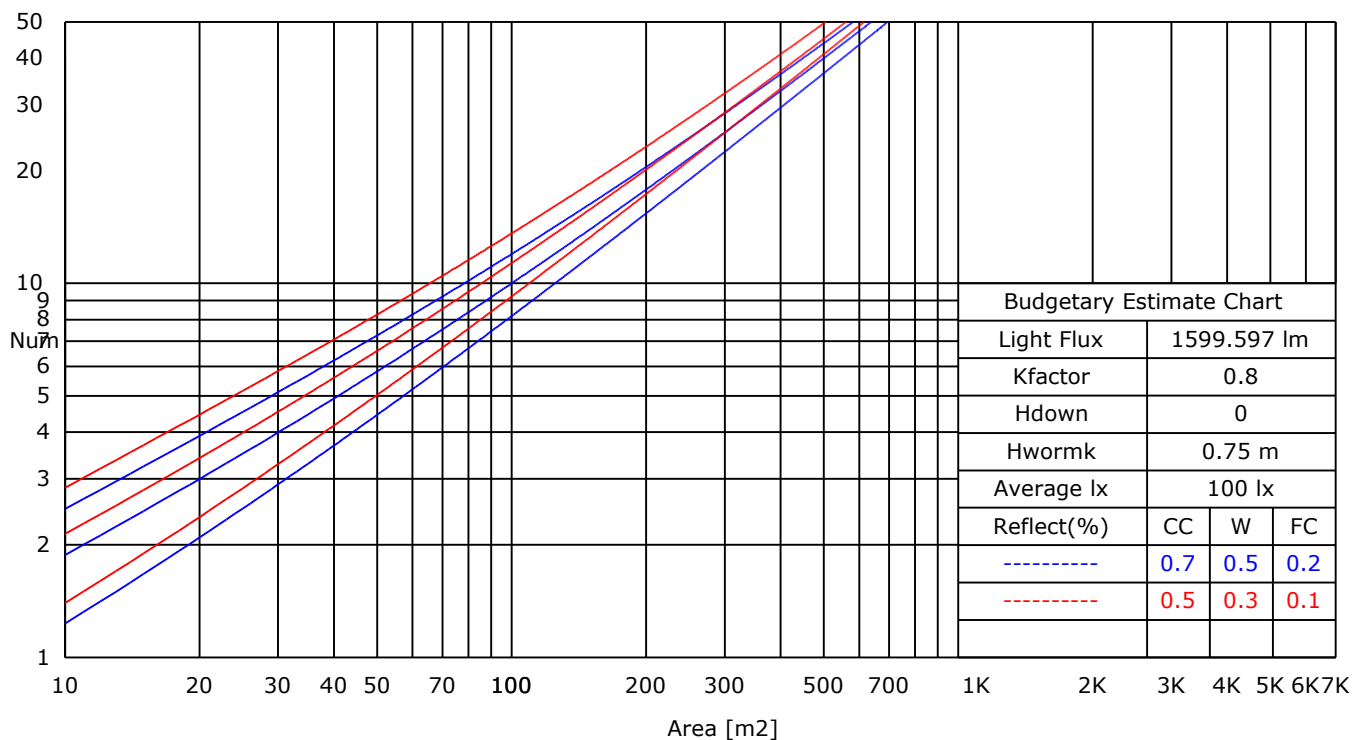
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UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.07	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.93	0.91	0.88	0.87	0.81
2	0.97	0.95	0.93	0.96	0.93	0.91	0.93	0.90	0.87	0.89	0.86	0.83	0.84	0.80	0.77	0.73
3	0.87	0.85	0.83	0.86	0.83	0.81	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.78	0.76	0.75	0.78	0.75	0.73	0.77	0.73	0.70	0.74	0.70	0.66	0.71	0.67	0.62	0.58
5	0.71	0.69	0.68	0.71	0.68	0.66	0.70	0.66	0.63	0.69	0.64	0.60	0.66	0.61	0.57	0.53
6	0.65	0.63	0.62	0.65	0.62	0.60	0.65	0.61	0.58	0.63	0.59	0.55	0.62	0.56	0.52	0.48
7	0.60	0.58	0.56	0.60	0.57	0.55	0.60	0.56	0.53	0.59	0.54	0.50	0.58	0.52	0.48	0.44
8	0.56	0.53	0.52	0.56	0.53	0.51	0.56	0.52	0.49	0.55	0.50	0.46	0.54	0.48	0.44	0.41
9	0.52	0.50	0.48	0.52	0.49	0.47	0.52	0.48	0.45	0.52	0.47	0.43	0.51	0.45	0.41	0.38
10	0.48	0.46	0.45	0.49	0.46	0.44	0.49	0.45	0.42	0.49	0.44	0.40	0.48	0.42	0.38	0.35

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



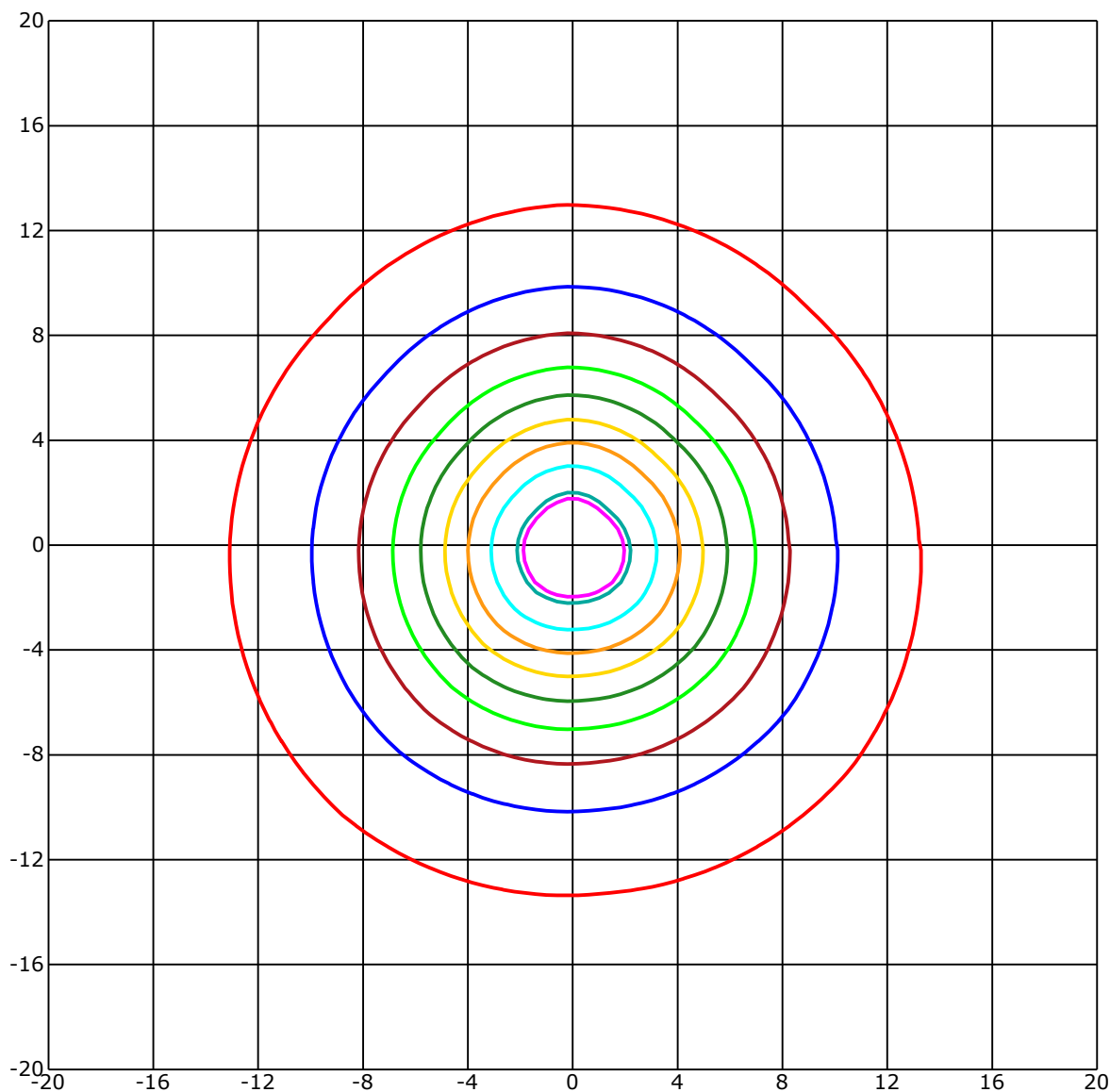
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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ISOLX DIAGRAM



Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

6.146(92%Emax)	3.34(50%Emax)
6.012(90%Emax)	2.672(40%Emax)
5.344(80%Emax)	2.004(30%Emax)
4.676(70%Emax)	1.336(20%Emax)
4.008(60%Emax)	0.668(10%Emax)

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Test Speed: High
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Operators: QC01
Test Date: 2025/5/19 16:41:24

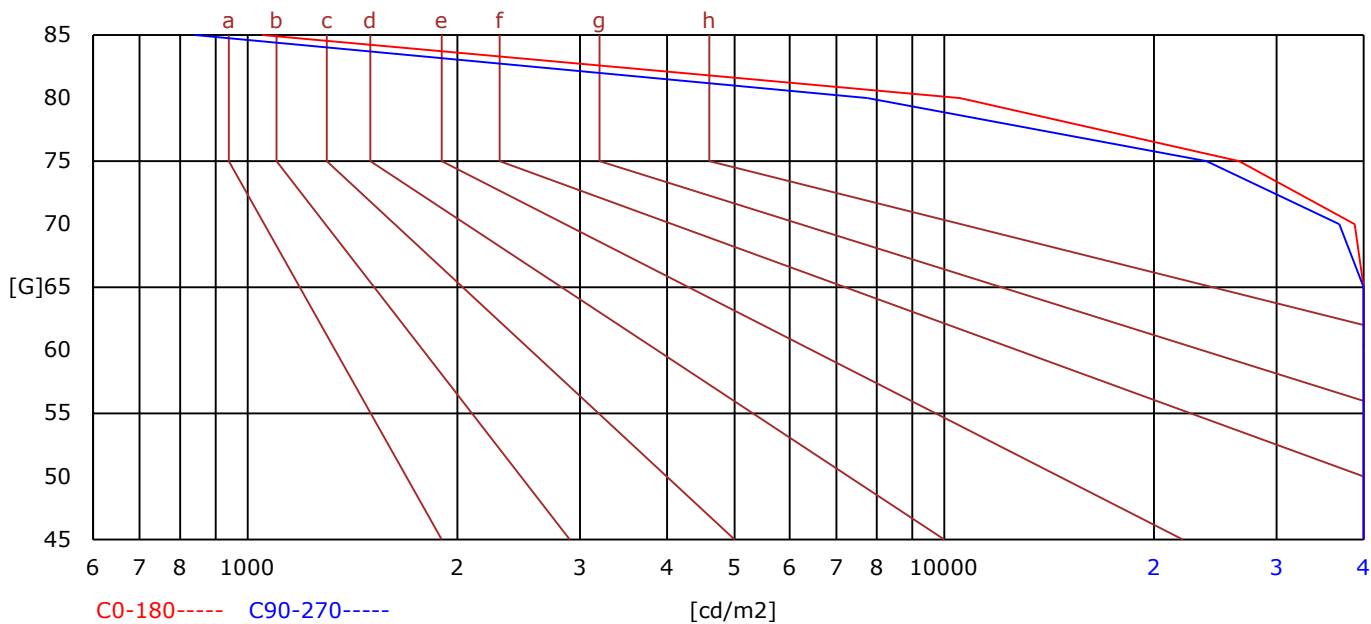
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	63954	60350	56582	52658	47547	38811	26491	10529	1049
C90	63420	59876	55902	51792	46090	36904	23783	7757	839
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



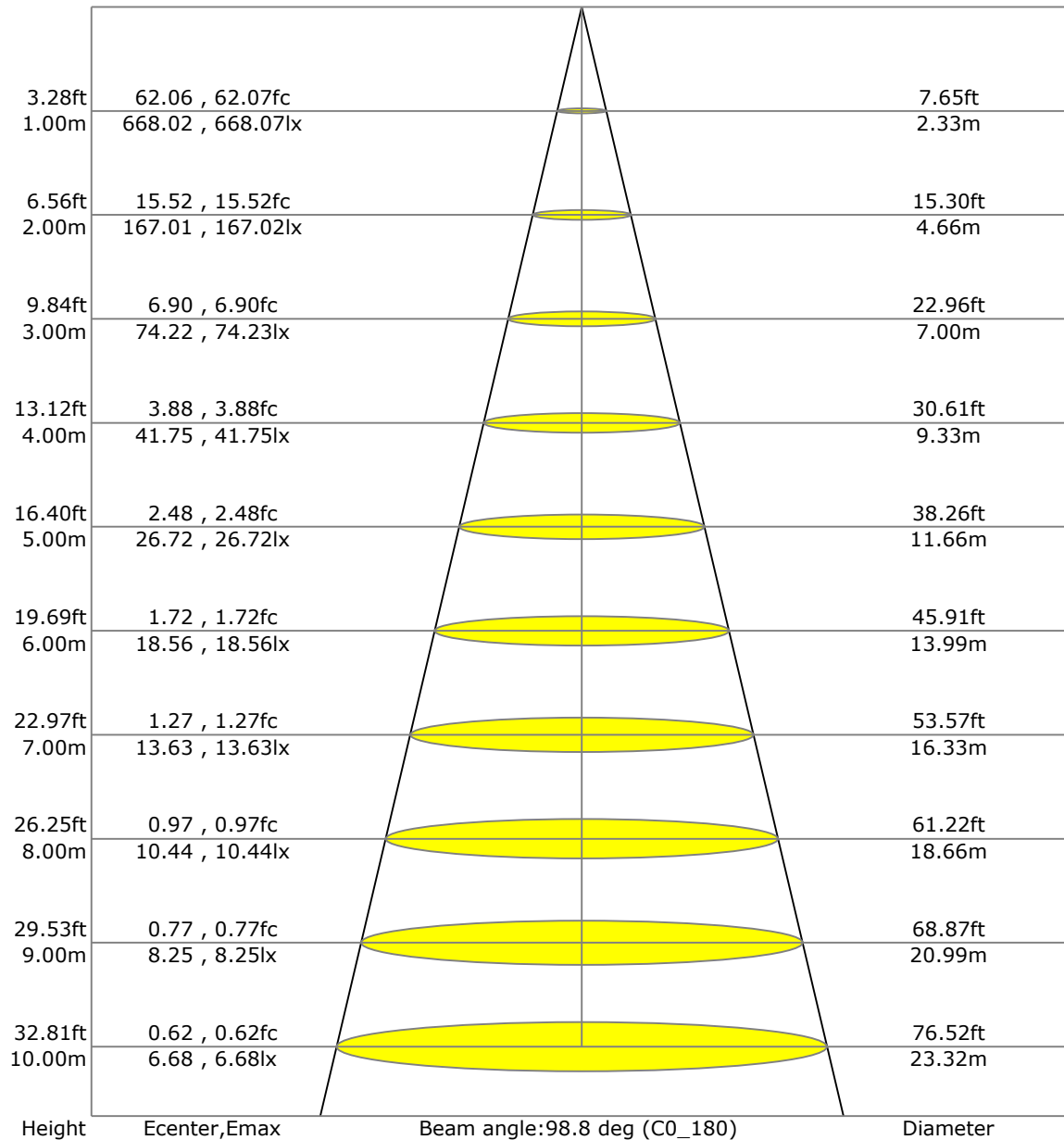
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Temperature: 25
Operators: QC01
Test Date: 2025/5/19 16:41:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/5/19 16:41:24

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 m
 Remarks:

UGR(Unified Glare Rating) TABLE

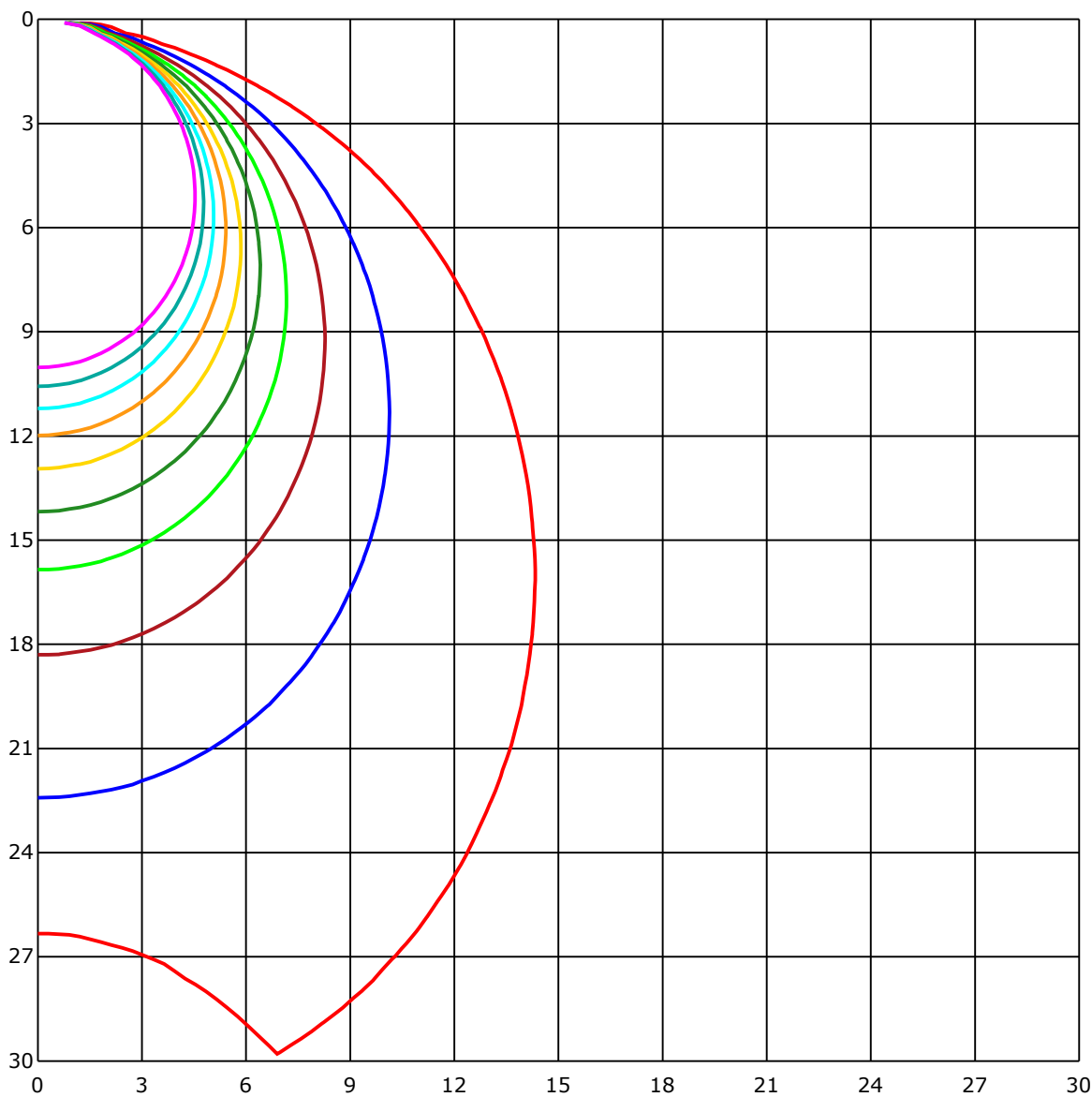
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	21.39	21.47	21.60	21.66	21.90	21.29	21.37	21.49	21.55	21.80
3H	21.49	21.56	21.69	21.75	22.00	21.40	21.47	21.61	21.66	21.91
4H	21.48	21.55	21.69	21.74	21.99	21.39	21.46	21.61	21.66	21.91
6H	21.45	21.52	21.67	21.72	21.97	21.37	21.44	21.59	21.64	21.89
8H	21.43	21.50	21.65	21.70	21.96	21.35	21.42	21.57	21.62	21.88
12H	21.42	21.48	21.64	21.69	21.95	21.34	21.40	21.56	21.61	21.86
4H 2H	23.19	23.26	23.40	23.46	23.71	22.92	22.99	23.13	23.18	23.43
3H	23.34	23.41	23.57	23.62	23.87	23.08	23.15	23.31	23.36	23.61
4H	23.34	23.41	23.57	23.62	23.88	23.09	23.15	23.32	23.37	23.62
6H	23.31	23.37	23.55	23.59	23.86	23.07	23.12	23.30	23.34	23.61
8H	23.30	23.35	23.54	23.58	23.84	23.05	23.10	23.29	23.33	23.59
12H	23.28	23.33	23.52	23.56	23.83	23.03	23.08	23.28	23.31	23.58
8H 4H	23.35	23.42	23.57	23.62	23.88	23.00	23.07	23.22	23.27	23.52
6H	23.50	23.55	23.75	23.78	24.06	23.16	23.21	23.42	23.45	23.72
8H	23.48	23.52	23.74	23.77	24.04	23.14	23.18	23.40	23.43	23.71
12H	23.45	23.49	23.72	23.75	24.03	23.12	23.16	23.39	23.41	23.69
12H 4H	23.52	23.57	23.77	23.80	24.07	23.17	23.23	23.42	23.46	23.73
6H	23.48	23.53	23.74	23.77	24.05	23.14	23.19	23.41	23.43	23.71

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G Interval: 1.0 Deg
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SPACE ISOLX DIAGRAM



6.649	3.324
5.984	2.659
5.319	1.995
4.654	1.33
3.989	0.665

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	668.02	663.07	664.39	665.81	668.02	663.07	664.39	665.81	668.02	
G1	667.98	662.41	663.64	662.88	667.18	663.92	664.63	666.04	667.98	
G2	668.07	659.34	662.6	662.74	667.03	663.35	666.14	665.48	668.07	
G3	666.37	658.49	661.13	659.91	665.52	664.82	664.2	665.62	666.37	
G4	664.72	656.18	659.95	657.55	663.59	664.53	664.53	666.89	664.72	
G5	664.15	653.06	657.78	654.86	662.27	663.35	662.79	665.33	664.15	
G6	662.36	651.03	656.13	651.79	660.57	661.46	661.32	663.82	662.36	
G7	660.99	646.22	652.31	648.49	657.41	661.09	659.48	662.55	660.99	
G8	656.41	644.14	649.15	645.18	654.1	659.29	657.31	661.79	656.41	
G9	654.34	640.7	645.09	640.23	652.31	657.12	654.24	658.63	654.34	
G10	650.56	634.47	642.63	636.26	647.31	653.72	652.21	656.27	650.56	
G11	646.98	630.65	637.54	631.02	643.95	651.93	648.06	654.9	646.98	
G12	642.44	624.84	633.05	627.06	639.57	647.78	644.47	651.36	642.44	
G13	638.57	620.88	628.19	620.78	636.87	645.37	640.37	647.92	638.57	
G14	633.48	614.83	623.99	615.54	629.98	641.41	637.16	645.09	633.48	
G15	628.9	608.18	617.15	609.26	625.36	638.29	631.45	639.05	628.9	
G16	623.14	601.95	612.95	604.26	619.98	632.82	628.43	635.51	623.14	
G17	618.42	596.85	605.68	596.85	613.32	629.32	621.72	630.22	618.42	
G18	612.05	589.11	599.64	589.96	607.71	622.29	616.67	624.56	612.05	
G19	607.05	582.55	592.56	582.41	602.0	616.72	610.11	619.18	607.05	
G20	598.74	574.53	586.52	576.51	594.02	610.96	604.5	613.75	598.74	
G21	592.6	568.11	579.01	567.83	587.65	604.69	598.13	607.19	592.6	
G22	586.0	560.42	572.59	560.65	580.81	598.5	591.47	600.86	586.0	
G23	579.25	552.2	564.66	552.25	572.92	592.23	583.68	594.3	579.25	
G24	570.47	545.12	556.92	544.94	564.76	584.44	576.98	588.31	570.47	
G25	563.67	536.44	548.62	535.83	558.67	577.78	569.05	581.42	563.67	
G26	555.79	527.19	541.21	528.56	549.84	570.14	562.73	573.3	555.79	
G27	547.86	518.79	531.67	518.65	542.06	564.43	553.62	566.98	547.86	
G28	538.66	510.01	524.31	509.96	532.62	555.27	545.78	558.91	538.66	
G29	530.12	501.75	515.34	500.85	525.73	547.77	538.0	550.5	530.12	
G30	521.48	492.26	507.51	492.83	515.3	538.75	528.7	542.29	521.48	
G31	513.27	482.68	497.93	482.92	506.8	531.58	519.92	533.94	513.27	
G32	503.54	474.75	488.82	474.42	497.41	521.81	511.99	525.68	503.54	
G33	495.76	465.98	479.24	464.18	490.23	514.3	502.51	517.09	495.76	
G34	485.99	455.26	470.93	454.84	479.52	504.72	493.96	508.07	485.99	
G35	477.4	445.87	460.55	446.06	469.89	495.76	484.43	498.59	477.4	
G36	467.11	437.09	451.34	436.19	460.55	486.22	475.98	490.28	467.11	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/19 16:41:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	457.95	427.84	442.05	426.05	451.53	477.4	465.98	481.6	457.95	
G38	448.18	417.27	432.8	417.69	442.23	468.1	457.72	472.02	448.18	
G39	438.98	407.69	422.98	407.36	431.99	460.26	447.52	462.1	438.98	
G40	428.93	398.34	413.49	397.54	422.88	449.5	438.13	453.37	428.93	
G41	419.53	388.71	403.49	387.25	413.21	440.54	428.45	443.37	419.53	
G42	410.42	378.33	394.19	377.29	403.58	431.24	418.92	434.64	410.42	
G43	400.42	368.56	383.81	367.1	393.1	420.85	408.02	424.25	400.42	
G44	389.8	358.79	374.27	358.32	383.1	410.57	398.86	414.39	389.8	
G45	380.31	350.2	364.17	347.27	373.42	401.22	388.57	404.48	380.31	
G46	370.54	339.39	355.44	337.74	364.27	391.45	378.76	394.85	370.54	
G47	361.01	330.14	344.73	327.88	353.88	382.91	368.94	384.99	361.01	
G48	350.53	320.14	335.38	318.39	343.97	371.53	359.59	375.78	350.53	
G49	340.86	310.84	324.9	307.54	335.15	362.0	349.3	365.4	340.86	
G50	330.9	300.41	315.32	298.05	323.72	351.99	339.77	356.2	330.9	
G51	321.27	290.69	305.22	288.33	314.05	343.07	329.34	345.81	321.27	
G52	311.64	280.73	296.21	278.6	304.7	332.27	319.52	336.89	311.64	
G53	301.54	270.86	286.2	268.03	294.7	322.54	309.38	326.51	301.54	
G54	291.58	261.05	276.29	258.4	284.55	312.25	299.32	316.83	291.58	
G55	281.95	251.32	266.14	248.3	274.26	302.82	289.13	306.64	281.95	
G56	271.38	241.7	256.89	238.96	264.16	293.05	279.45	297.06	271.38	
G57	262.32	232.26	246.79	229.09	254.49	282.85	269.82	286.77	262.32	
G58	252.27	222.72	237.16	219.7	245.33	272.8	260.1	276.86	252.27	
G59	243.68	213.61	227.39	210.03	235.18	263.22	250.38	267.04	243.68	
G60	232.96	203.89	218.14	200.54	225.51	252.93	240.75	257.93	232.96	
G61	223.62	194.73	208.33	190.91	215.6	243.44	230.7	247.69	223.62	
G62	214.13	185.01	199.12	181.76	206.53	233.77	220.98	238.25	214.13	
G63	204.36	176.09	189.97	171.8	196.76	224.37	211.54	228.81	204.36	
G64	194.64	166.42	180.53	161.98	187.28	214.56	201.81	219.37	194.64	
G65	185.86	155.61	170.14	150.84	177.6	204.93	192.47	209.74	185.86	
G66	175.95	145.08	159.76	140.22	167.17	195.44	182.79	199.93	175.95	
G67	165.9	134.28	148.72	129.56	156.46	185.77	172.32	190.2	165.9	
G68	154.76	123.94	138.1	118.94	145.08	175.34	162.07	180.67	154.76	
G69	144.56	113.51	126.96	108.41	134.46	164.91	151.5	170.05	144.56	
G70	134.04	102.79	116.34	97.74	123.42	154.15	140.98	159.71	134.04	
G71	123.66	92.46	105.44	87.36	112.9	143.48	129.93	148.29	123.66	
G72	112.33	82.08	94.87	77.36	101.9	132.15	119.08	137.77	112.33	
G73	101.66	72.16	84.2	67.21	90.95	121.25	108.22	126.53	101.66	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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