

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247492

Luminaire Tested: **LD8B100D010 ER8B100840 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100840 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9800.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

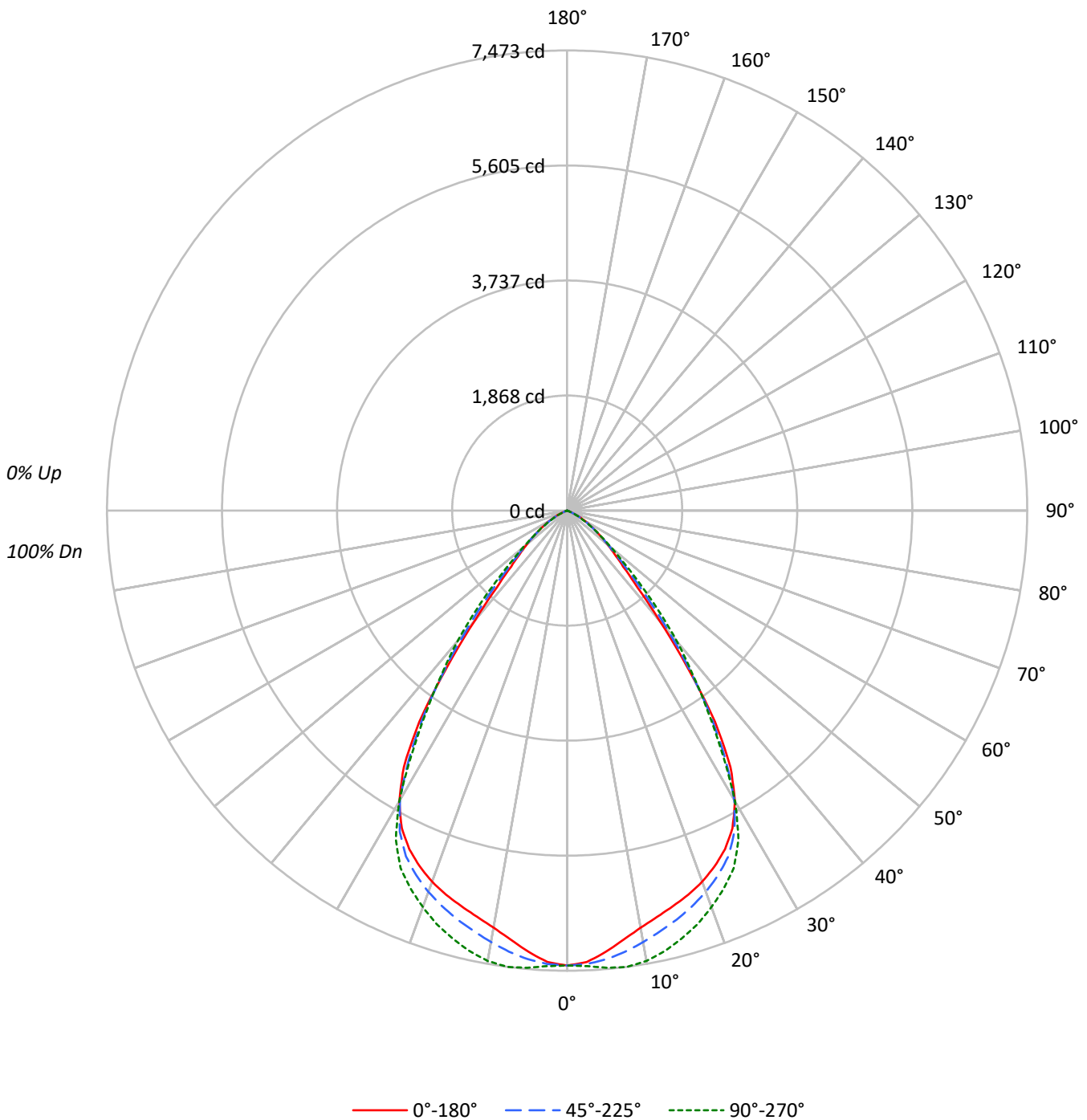
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	227819	227819	227819
5°	222653	226411	230726
10°	215286	222804	232504
15°	212241	219494	229672
20°	210454	216217	224900
25°	206394	210783	217856
30°	194021	193284	194206
35°	157646	152346	150016
40°	93590	103151	111725
45°	56016	63050	71611
50°	40810	41866	44960
55°	29563	28526	29149
60°	20062	18551	17836
65°	10076	9325	8851
70°	2795	2443	2209
75°	1072	774	774
80°	462	462	231
85°	460	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	692.7	7.1
10°-20°	1945.3	19.8
20°-30°	2827.3	28.9
30°-40°	2500.3	25.5
40°-50°	1189.4	12.1
50°-60°	495.4	5.1
60°-70°	138.4	1.4
70°-80°	10.5	0.1
80°-90°	0.8	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5465.3	55.8
0°-40°	7965.5	81.3
0°-60°	9650.4	98.5
0°-90°	9800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7388	7388	7388	7388	7388	
5°	7193	7229	7314	7411	7454	676
15°	6648	6709	6876	7085	7194	1878
25°	6066	6093	6195	6332	6403	2772
35°	4188	4128	4047	3985	3985	2507
45°	1284	1330	1446	1580	1642	1069
55°	550	544	531	531	542	500
65°	138	136	128	123	121	150
75°	9	8	6	6	6	12
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7388.0	7388.0	7388.0	7388.0	7388.0
2.5°	7338.9	7345.4	7369.9	7393.1	7403.4
5°	7193.0	7229.2	7314.4	7411.2	7453.8
7.5°	7026.5	7080.7	7224.0	7394.4	7473.2
10°	6875.5	6943.9	7115.6	7326.0	7425.4
12.5°	6756.7	6820.0	6995.5	7215.0	7327.3
15°	6648.3	6708.9	6875.5	7084.6	7194.3
17.5°	6539.8	6597.9	6741.2	6936.1	7042.0
20°	6413.3	6459.8	6588.9	6760.6	6853.5
22.5°	6255.8	6298.4	6406.9	6559.2	6643.1
25°	6066.1	6093.2	6195.1	6332.0	6403.0
27.5°	5814.3	5820.8	5882.7	5971.8	6024.7
30°	5449.0	5445.1	5428.3	5424.5	5454.2
32.5°	4937.8	4881.0	4782.9	4736.4	4700.3
35°	4187.8	4128.4	4047.0	3985.1	3985.1
37.5°	3201.5	3253.1	3285.4	3324.1	3343.5
40°	2325.0	2401.1	2562.5	2730.3	2775.5
42.5°	1689.8	1760.8	1935.1	2122.3	2176.5
45°	1284.5	1329.7	1445.8	1580.1	1642.1
47.5°	1037.9	1050.8	1108.9	1188.9	1218.6
50°	850.7	854.6	872.7	914.0	937.2
52.5°	688.1	685.5	690.6	702.3	712.6
55°	549.9	543.5	530.6	530.6	542.2
57.5°	424.7	415.7	401.5	395.0	391.1
60°	325.3	316.3	300.8	290.5	289.2
62.5°	233.7	225.9	210.4	201.4	198.8
65°	138.1	135.5	127.8	122.6	121.3
67.5°	64.5	62.0	55.5	52.9	51.6
70°	31.0	29.7	27.1	25.8	24.5
72.5°	15.5	15.5	12.9	12.9	12.9
75°	9.0	7.7	6.5	6.5	6.5
77.5°	5.2	3.9	3.9	3.9	3.9
80°	2.6	2.6	2.6	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)