

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: P247487

Luminaire Tested: **LD8B90D010 ER8B90835 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247487  
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: LD8B90D010 ER8B90835 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8550.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 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

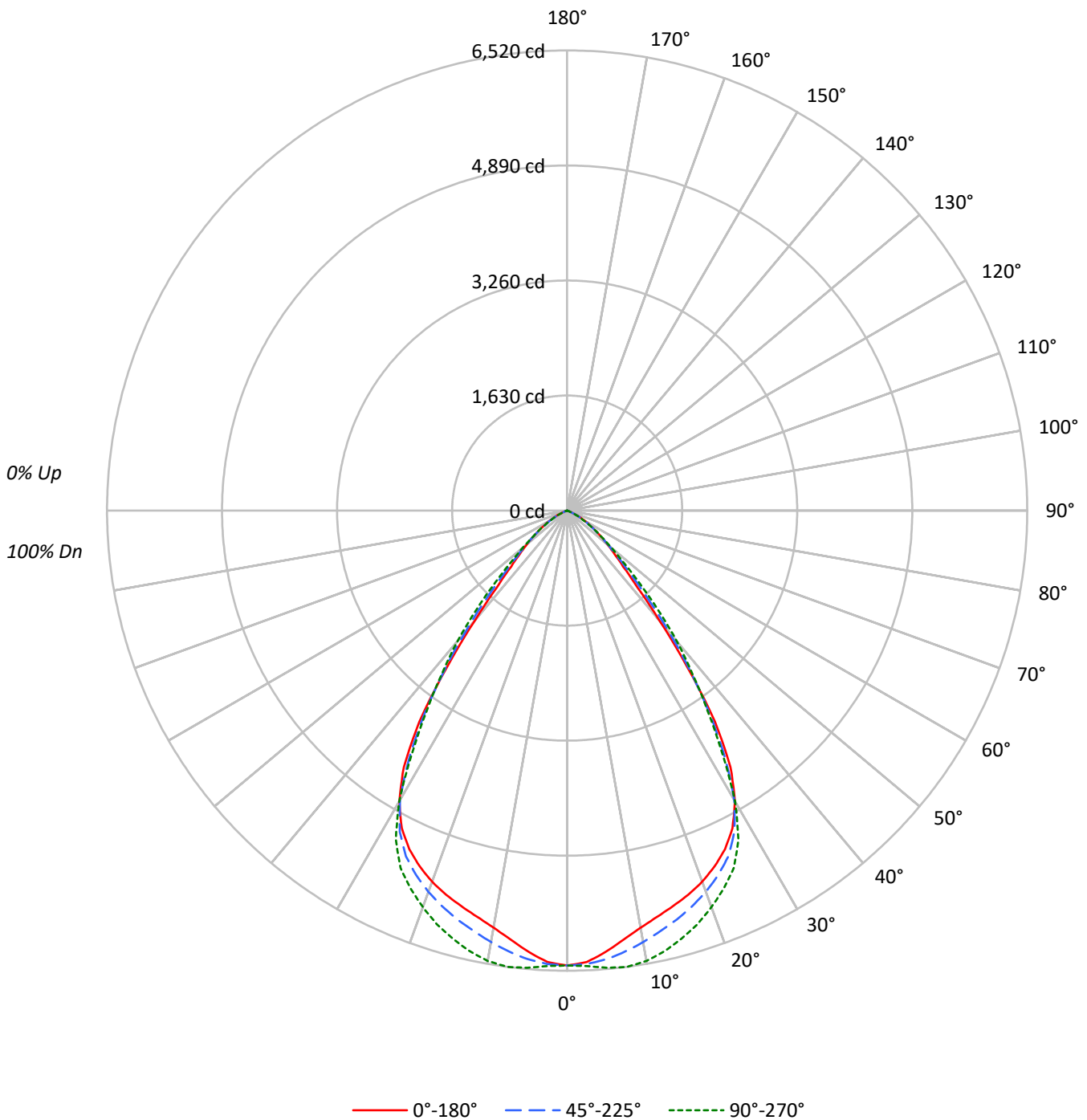
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84					84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

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

	0°	45°	90°
0°	198759	198759	198759
5°	194256	197531	201298
10°	187825	194385	202849
15°	185169	191497	200378
20°	183612	188639	196213
25°	180066	183897	190069
30°	169274	168630	169435
35°	137537	132914	130881
40°	81651	89992	97475
45°	48868	55009	62474
50°	35605	36526	39227
55°	25795	24886	25429
60°	17503	16183	15560
65°	8792	8136	7727
70°	2434	2137	1929
75°	941	667	667
80°	408	408	195
85°	389	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.3	7.1
10°-20°	1697.1	19.8
20°-30°	2466.7	28.9
30°-40°	2181.4	25.5
40°-50°	1037.7	12.1
50°-60°	432.2	5.1
60°-70°	120.8	1.4
70°-80°	9.1	0.1
80°-90°	0.7	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°	4768.2	55.8
0°-40°	6949.5	81.3
0°-60°	8419.5	98.5
0°-90°	8550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8550.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6446	6446	6446	6446	6446	
5°	6276	6307	6381	6466	6503	590
15°	5800	5853	5998	6181	6277	1638
25°	5292	5316	5405	5524	5586	2419
35°	3654	3602	3531	3477	3477	2187
45°	1121	1160	1261	1378	1433	933
55°	480	474	463	463	473	436
65°	120	118	112	107	106	131
75°	8	7	6	6	6	11
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°	6445.6	6445.6	6445.6	6445.6	6445.6
2.5°	6402.8	6408.4	6429.8	6450.1	6459.1
5°	6275.6	6307.1	6381.4	6465.9	6503.1
7.5°	6130.3	6177.6	6302.6	6451.2	6519.9
10°	5998.5	6058.2	6208.0	6391.6	6478.3
12.5°	5894.9	5950.1	6103.2	6294.7	6392.7
15°	5800.3	5853.2	5998.5	6180.9	6276.7
17.5°	5705.7	5756.3	5881.4	6051.4	6143.8
20°	5595.3	5635.8	5748.5	5898.3	5979.3
22.5°	5457.9	5495.0	5589.7	5722.6	5795.8
25°	5292.3	5316.0	5404.9	5524.3	5586.3
27.5°	5072.7	5078.3	5132.4	5210.1	5256.3
30°	4754.0	4750.6	4735.9	4732.6	4758.5
32.5°	4308.0	4258.4	4172.8	4132.3	4100.7
35°	3653.6	3601.8	3530.8	3476.8	3476.8
37.5°	2793.1	2838.2	2866.3	2900.1	2917.0
40°	2028.4	2094.9	2235.6	2382.1	2421.5
42.5°	1474.3	1536.2	1688.3	1851.6	1898.9
45°	1120.6	1160.1	1261.4	1378.5	1432.6
47.5°	905.5	916.8	967.5	1037.3	1063.2
50°	742.2	745.6	761.4	797.4	817.7
52.5°	600.3	598.0	602.6	612.7	621.7
55°	479.8	474.2	462.9	462.9	473.0
57.5°	370.5	362.7	350.3	344.6	341.3
60°	283.8	275.9	262.4	253.4	252.3
62.5°	203.9	197.1	183.6	175.7	173.4
65°	120.5	118.3	111.5	107.0	105.9
67.5°	56.3	54.1	48.4	46.2	45.1
70°	27.0	25.9	23.7	22.5	21.4
72.5°	13.5	13.5	11.3	11.3	11.3
75°	7.9	6.8	5.6	5.6	5.6
77.5°	4.5	3.4	3.4	3.4	3.4
80°	2.3	2.3	2.3	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	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)