

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: P248176

Luminaire Tested: **LD8B200D010 ER8B200850 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200850 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19575.0 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

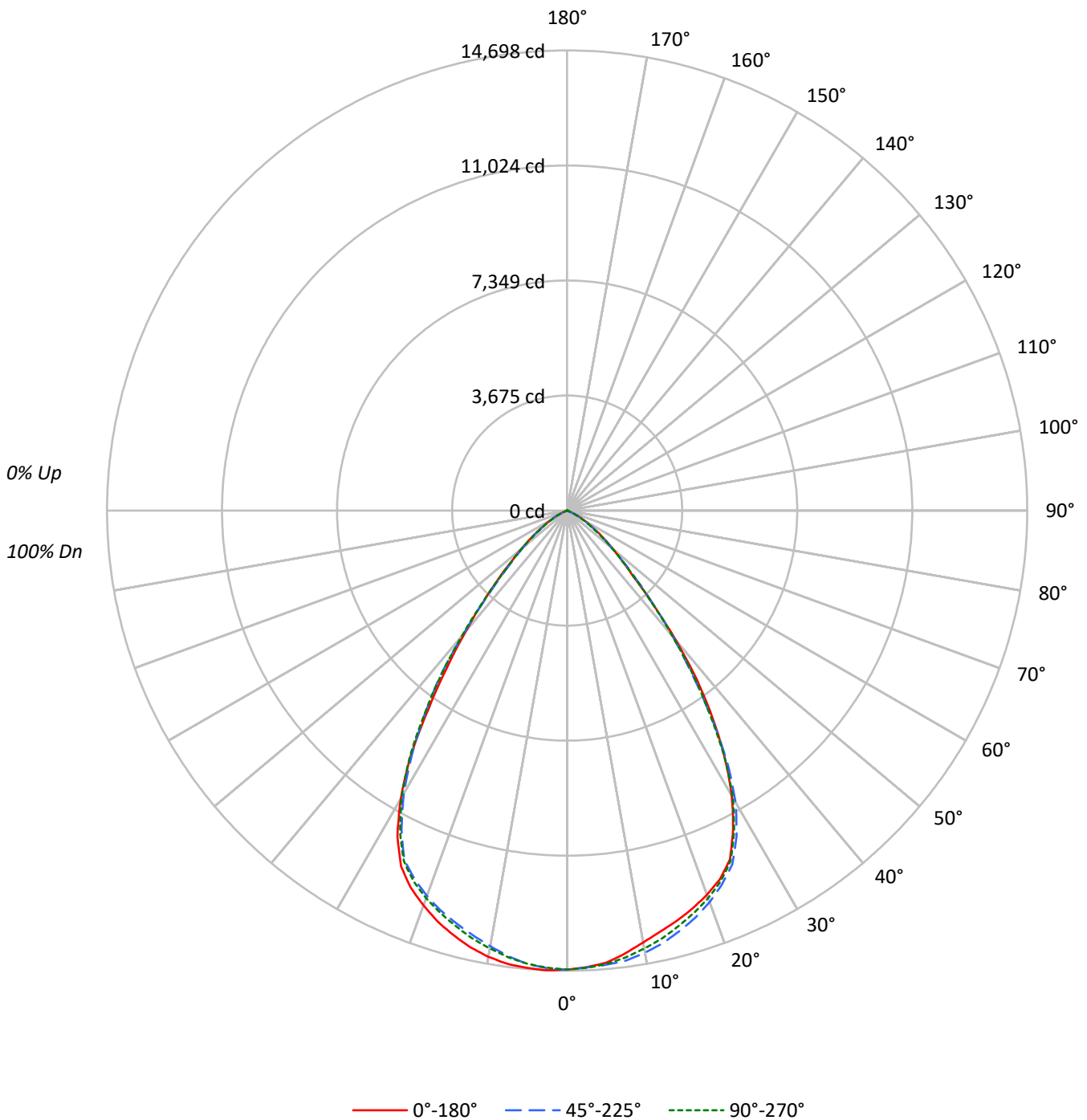
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	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	71	67	76	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58					58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

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

	0°	90°	180°
0°	452104	452104	452104
5°	448615	449865	453954
10°	438522	444725	453169
15°	432891	438701	448125
20°	428476	432237	440332
25°	418439	420133	426829
30°	374540	376463	378574
35°	305238	299098	290267
40°	216462	210436	202679
45°	131979	134211	136915
50°	91182	89503	91379
55°	61890	57546	59358
60°	40155	34999	36745
65°	21145	16818	18095
70°	5590	4742	4256
75°	965	1930	1120
80°	0	0	479
85°	955	955	955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1378.6	7.0
10°-20°	3883.5	19.8
20°-30°	5600.1	28.6
30°-40°	4918.2	25.1
40°-50°	2486.9	12.7
50°-60°	1017.9	5.2
60°-70°	267.6	1.4
70°-80°	18.9	0.1
80°-90°	3.4	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°	10862.1	55.5
0°-40°	15780.3	80.6
0°-60°	19285.1	98.5
0°-90°	19575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19575.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	14661	14661	14661	14661	14661	
5°	14493	14559	14533	14533	14665	###
15°	13560	13896	13742	13653	14037	3826
25°	12298	12475	12348	12304	12545	5556
35°	8108	7970	7945	7912	7711	4999
45°	3026	3168	3078	2999	3140	2497
55°	1151	1105	1070	1068	1104	1064
65°	290	258	230	228	248	296
75°	8	5	16	5	9	20
85°	3	3	3	1	3	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	14661.4	14661.4	14661.4	14661.4	14661.4	14661.4	14661.4	14661.4	14661.4
2.5°	14594.0	14665.4	14602.1	14639.8	14614.2	14572.4	14630.4	14603.4	14697.8
5°	14492.9	14579.2	14558.9	14606.1	14533.3	14456.5	14533.3	14540.1	14665.4
7.5°	14262.4	14410.6	14495.6	14552.2	14391.8	14266.4	14358.1	14440.3	14602.1
10°	14004.9	14184.2	14337.9	14425.5	14203.0	14019.7	14128.9	14269.1	14472.7
12.5°	13767.6	13965.8	14147.8	14232.7	13998.1	13791.9	13895.7	14069.6	14288.0
15°	13560.0	13723.1	13895.7	13983.3	13742.0	13546.5	13653.0	13813.5	14037.2
17.5°	13322.8	13476.5	13628.8	13697.5	13473.8	13303.9	13401.0	13538.5	13760.9
20°	13057.2	13189.3	13305.2	13386.1	13171.8	13010.0	13097.6	13225.7	13418.5
22.5°	12745.8	12845.6	12921.1	12993.8	12820.0	12659.5	12735.0	12836.1	13039.7
25°	12298.3	12399.4	12474.8	12557.1	12348.1	12210.6	12303.6	12346.8	12544.9
27.5°	11478.6	11606.7	11719.9	11792.7	11554.1	11435.5	11459.8	11531.2	11741.5
30°	10518.8	10580.8	10753.4	10775.0	10572.8	10366.5	10432.6	10508.0	10632.1
32.5°	9378.4	9413.4	9513.2	9524.0	9373.0	9213.9	9215.3	9181.6	9306.9
35°	8108.5	8029.0	7969.7	8010.1	7945.4	7973.7	7911.7	7756.7	7710.8
37.5°	6796.9	6745.6	6485.5	6465.2	6616.2	6707.9	6647.2	6302.1	6277.9
40°	5377.4	5319.4	5222.3	5207.5	5227.7	5280.3	5168.4	5066.0	5035.0
42.5°	4023.9	4054.9	4085.9	4114.2	4056.3	3943.0	3937.7	3918.8	3991.6
45°	3026.4	3092.4	3167.9	3205.7	3077.6	2990.0	2999.4	3041.2	3139.6
47.5°	2392.8	2406.3	2434.6	2466.9	2391.4	2279.6	2309.2	2376.6	2419.7
50°	1900.7	1914.2	1906.1	1902.1	1865.7	1798.3	1840.1	1890.0	1904.8
52.5°	1499.0	1481.5	1466.7	1457.2	1434.3	1407.4	1415.5	1457.2	1480.2
55°	1151.2	1137.8	1105.4	1091.9	1070.4	1063.6	1067.7	1100.0	1104.1
57.5°	865.4	846.6	814.2	788.6	790.0	779.2	784.6	807.5	819.6
60°	651.1	639.0	582.4	586.4	567.5	564.8	577.0	590.4	595.8
62.5°	450.2	454.3	411.2	405.8	396.3	397.7	405.8	416.5	417.9
65°	289.8	272.3	257.5	246.7	230.5	222.4	227.8	257.5	248.0
67.5°	113.2	120.0	97.1	113.2	105.1	89.0	102.5	114.6	109.2
70°	62.0	63.4	52.6	49.9	52.6	48.5	55.3	62.0	47.2
72.5°	39.1	39.1	28.3	28.3	36.4	24.3	28.3	44.5	35.0
75°	8.1	9.4	5.4	2.7	16.2	8.1	5.4	16.2	9.4
77.5°	0.0	9.4	0.0	0.0	0.0	0.0	2.7	2.7	2.7
80°	0.0	0.0	0.0	4.0	0.0	0.0	0.0	2.7	2.7
82.5°	0.0	2.7	0.0	0.0	0.0	0.0	0.0	2.7	0.0
85°	2.7	10.8	2.7	0.0	2.7	2.7	1.3	8.1	2.7
87.5°	17.5	8.1	1.3	8.1	6.7	8.1	9.4	8.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)