

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: P247636

Luminaire Tested: **LD8B100D010 ER8B100840 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100840 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10039.0 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

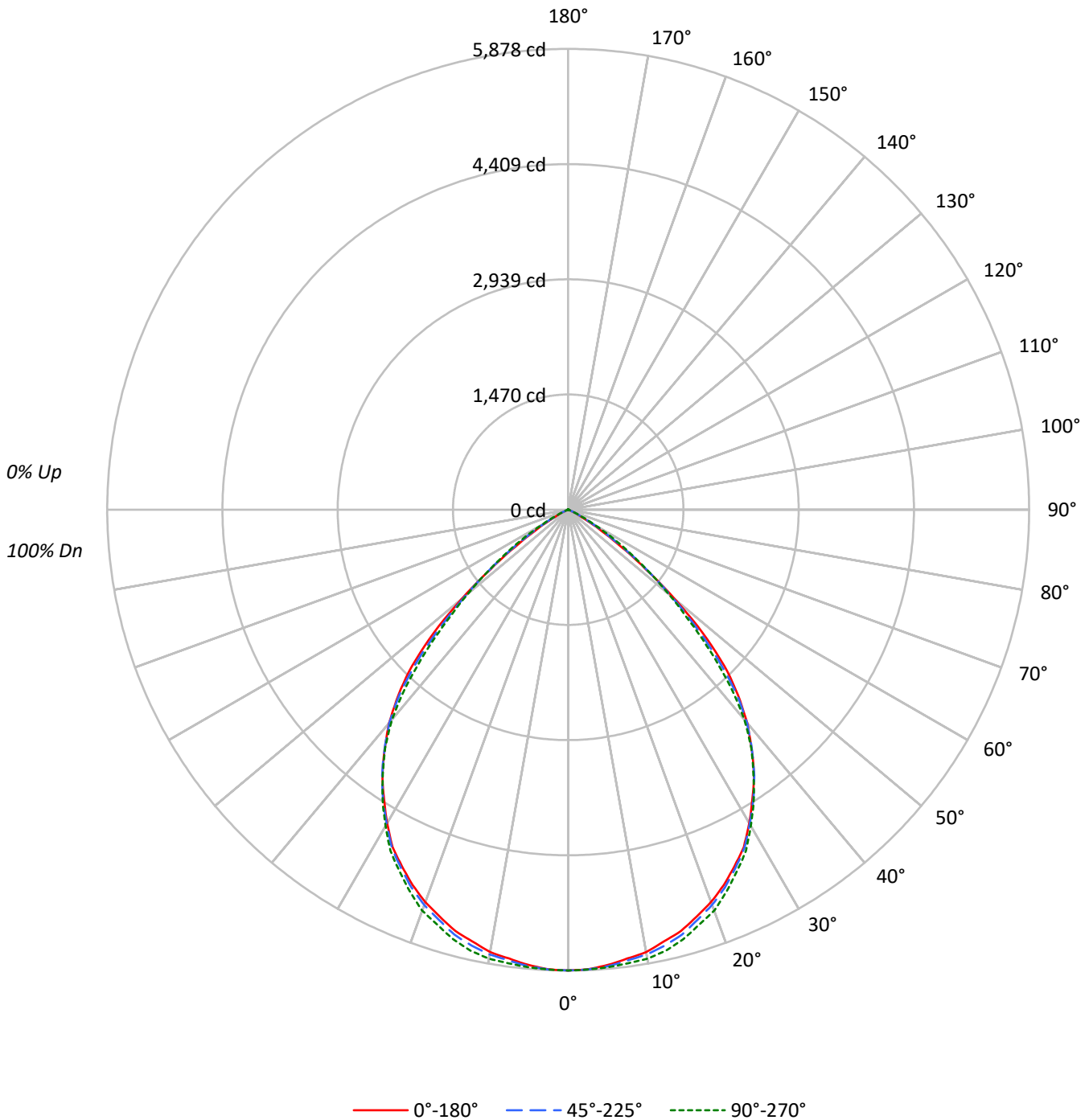
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°	45°	90°
0°	181256	181256	181256
5°	180431	180908	181351
10°	179402	180373	182073
15°	177594	179120	181058
20°	174758	176028	178611
25°	170696	171618	173155
30°	164385	164799	165856
35°	155471	155711	155079
40°	142861	142704	140732
45°	122847	117836	112433
50°	85406	82374	80081
55°	44558	48444	51294
60°	18076	21339	24762
65°	5750	7063	7537
70°	811	469	234
75°	0	0	0
80°	2060	462	693
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.1	5.5
10°-20°	1579.7	15.7
20°-30°	2320.6	23.1
30°-40°	2569.2	25.6
40°-50°	2047.5	20.4
50°-60°	839.0	8.4
60°-70°	123.5	1.2
70°-80°	1.8	0.0
80°-90°	2.5	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°	4455.4	44.4
0°-40°	7024.7	70.0
0°-60°	9911.2	98.7
0°-90°	10039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10039.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5878	5878	5878	5878	5878	
5°	5829	5839	5844	5854	5859	553
15°	5563	5567	5611	5664	5672	1566
25°	5017	5012	5044	5074	5089	2307
35°	4130	4125	4136	4131	4120	2567
45°	2817	2791	2702	2601	2578	2114
55°	829	857	901	953	954	797
65°	79	83	97	106	103	104
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5878.0	5878.0	5878.0	5878.0	5878.0
2.5°	5867.7	5869.0	5869.0	5862.5	5870.3
5°	5829.0	5839.3	5844.4	5853.5	5858.7
7.5°	5774.7	5772.2	5799.3	5831.5	5835.4
10°	5729.5	5724.4	5760.5	5803.1	5814.8
12.5°	5640.5	5646.9	5693.4	5737.3	5760.5
15°	5563.0	5566.9	5610.8	5663.7	5671.5
17.5°	5442.9	5454.6	5484.3	5539.8	5550.1
20°	5325.5	5330.6	5364.2	5409.4	5442.9
22.5°	5182.2	5191.2	5217.0	5257.0	5273.8
25°	5016.9	5011.7	5044.0	5073.7	5089.2
27.5°	4849.1	4840.0	4864.6	4893.0	4907.2
30°	4616.7	4614.1	4628.3	4646.4	4658.0
32.5°	4372.7	4379.1	4393.3	4398.5	4402.4
35°	4130.0	4124.8	4136.4	4131.3	4119.6
37.5°	3842.1	3845.9	3845.9	3840.8	3835.6
40°	3549.0	3552.9	3545.1	3516.7	3496.1
42.5°	3205.6	3208.2	3168.2	3104.9	3062.3
45°	2817.0	2791.2	2702.1	2601.4	2578.2
47.5°	2327.7	2283.8	2190.9	2114.7	2087.6
50°	1780.3	1748.0	1717.1	1677.0	1669.3
52.5°	1248.4	1265.2	1276.8	1289.7	1285.9
55°	828.8	857.2	901.1	952.8	954.1
57.5°	498.3	530.6	586.1	642.9	670.0
60°	293.1	306.0	346.0	388.6	401.5
62.5°	158.8	162.7	180.7	223.3	216.9
65°	78.8	82.6	96.8	105.9	103.3
67.5°	38.7	42.6	45.2	58.1	47.8
70°	9.0	2.6	5.2	6.5	2.6
72.5°	0.0	0.0	2.6	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.6	0.0	0.0	0.0	5.2
80°	11.6	7.7	2.6	2.6	3.9
82.5°	3.9	1.3	3.9	1.3	0.0
85°	0.0	0.0	0.0	5.2	0.0
87.5°	6.5	1.3	1.3	3.9	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)