

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: P247204

Luminaire Tested: **LD8B100D010 ER8B100840 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100840 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11823.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

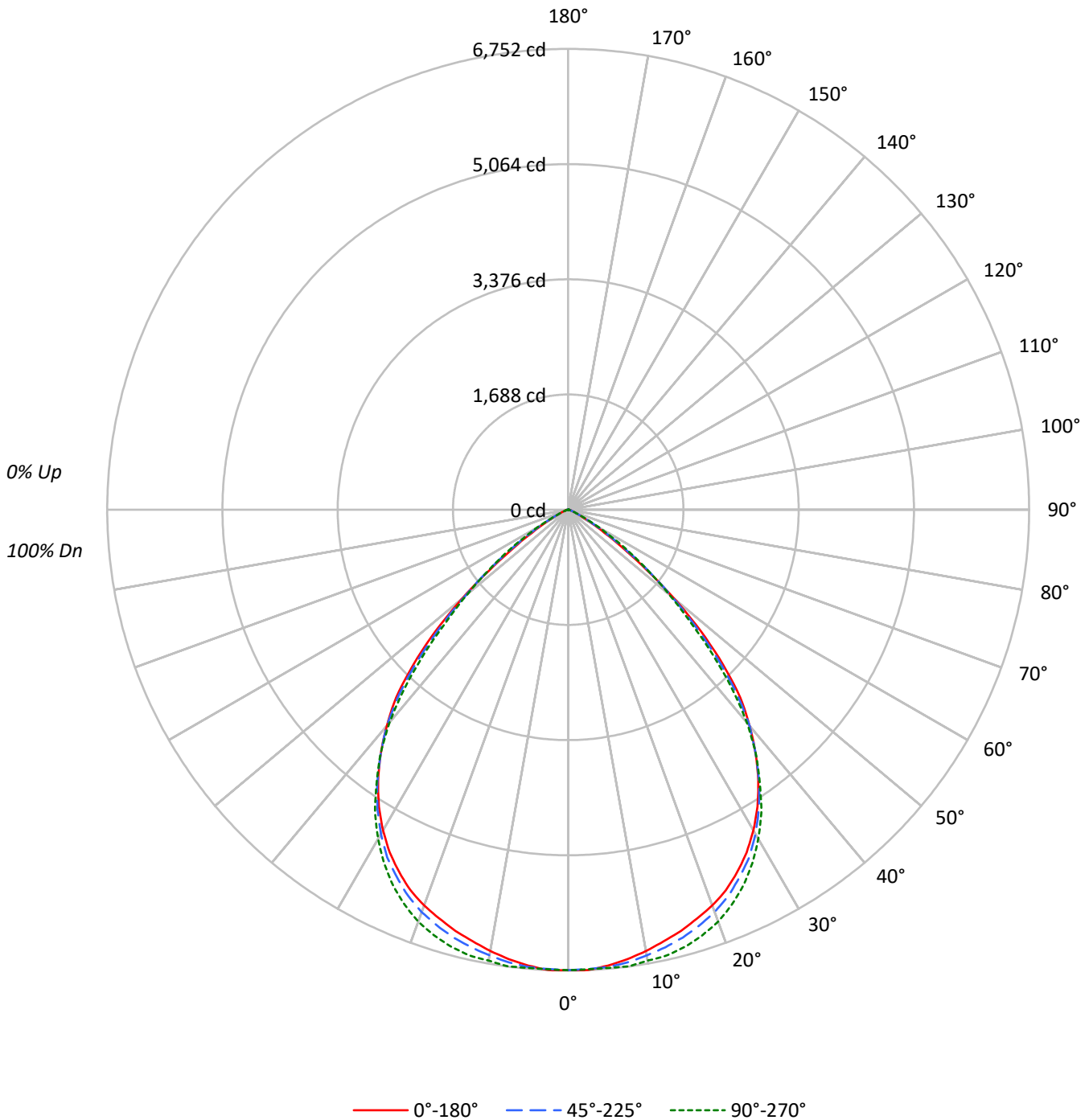
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	208056	208056	208056
5°	207532	208132	208572
10°	205567	207627	210054
15°	203938	207152	211606
20°	202513	205860	210819
25°	199344	202110	206591
30°	193170	195285	198272
35°	182691	183519	184201
40°	166410	166253	164019
45°	139911	135690	129833
50°	97178	95010	92472
55°	51987	57471	60874
60°	25162	28585	32249
65°	11025	11113	11587
70°	5932	5473	5355
75°	5230	4766	3384
80°	231	923	0
85°	460	460	2300



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	639.2	5.4
10°-20°	1832.9	15.5
20°-30°	2734.9	23.1
30°-40°	3028.9	25.6
40°-50°	2362.1	20.0
50°-60°	990.1	8.4
60°-70°	198.3	1.7
70°-80°	31.5	0.3
80°-90°	4.9	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°	5207.0	44.0
0°-40°	8236.0	69.7
0°-60°	11588.2	98.0
0°-90°	11823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11823.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6747	6747	6747	6747	6747	
5°	6704	6710	6724	6742	6738	636
15°	6388	6417	6489	6584	6628	1802
25°	5859	5882	5940	6032	6072	2692
35°	4853	4845	4875	4898	4893	3016
45°	3208	3194	3112	3016	2977	2427
55°	967	1004	1069	1112	1132	942
65°	151	151	152	164	159	182
75°	44	40	40	31	28	36
85°	1	3	1	0	6	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6747.1	6747.1	6747.1	6747.1	6747.1
2.5°	6752.3	6739.4	6736.8	6744.6	6739.4
5°	6704.5	6709.7	6723.9	6742.0	6738.1
7.5°	6642.6	6651.6	6690.3	6736.8	6748.4
10°	6565.1	6584.5	6630.9	6683.9	6708.4
12.5°	6474.7	6500.5	6567.7	6643.9	6689.0
15°	6388.2	6416.6	6488.9	6584.5	6628.4
17.5°	6279.8	6317.2	6388.2	6491.5	6536.7
20°	6171.3	6204.9	6273.3	6374.0	6424.4
22.5°	6037.0	6061.6	6126.1	6211.3	6263.0
25°	5858.9	5882.1	5940.2	6031.9	6071.9
27.5°	5660.1	5687.2	5740.1	5803.4	5839.5
30°	5425.1	5447.0	5484.5	5541.3	5568.4
32.5°	5160.4	5161.7	5199.1	5241.7	5266.3
35°	4853.1	4845.4	4875.1	4898.3	4893.2
37.5°	4513.6	4514.9	4512.3	4514.9	4520.0
40°	4134.0	4115.9	4130.1	4097.9	4074.6
42.5°	3731.2	3713.1	3657.6	3586.6	3547.9
45°	3208.3	3194.1	3111.5	3015.9	2977.2
47.5°	2633.8	2589.9	2522.8	2441.4	2404.0
50°	2025.7	2020.5	1980.5	1961.1	1927.6
52.5°	1448.6	1448.6	1497.6	1489.9	1488.6
55°	967.0	1004.5	1069.0	1111.6	1132.3
57.5°	630.0	664.9	719.1	764.3	785.0
60°	408.0	424.8	463.5	498.4	522.9
62.5°	253.0	267.3	287.9	309.9	318.9
65°	151.1	151.1	152.3	164.0	158.8
67.5°	102.0	105.9	100.7	100.7	113.6
70°	65.8	62.0	60.7	59.4	59.4
72.5°	42.6	36.1	38.7	41.3	36.1
75°	43.9	40.0	40.0	31.0	28.4
77.5°	15.5	16.8	11.6	9.0	7.7
80°	1.3	5.2	5.2	1.3	0.0
82.5°	15.5	14.2	11.6	18.1	11.6
85°	1.3	2.6	1.3	0.0	6.5
87.5°	0.0	0.0	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)