

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: P247340

Luminaire Tested: **LD8B100D010 ER8B100830 8LBSOWMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100830 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11204.0 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

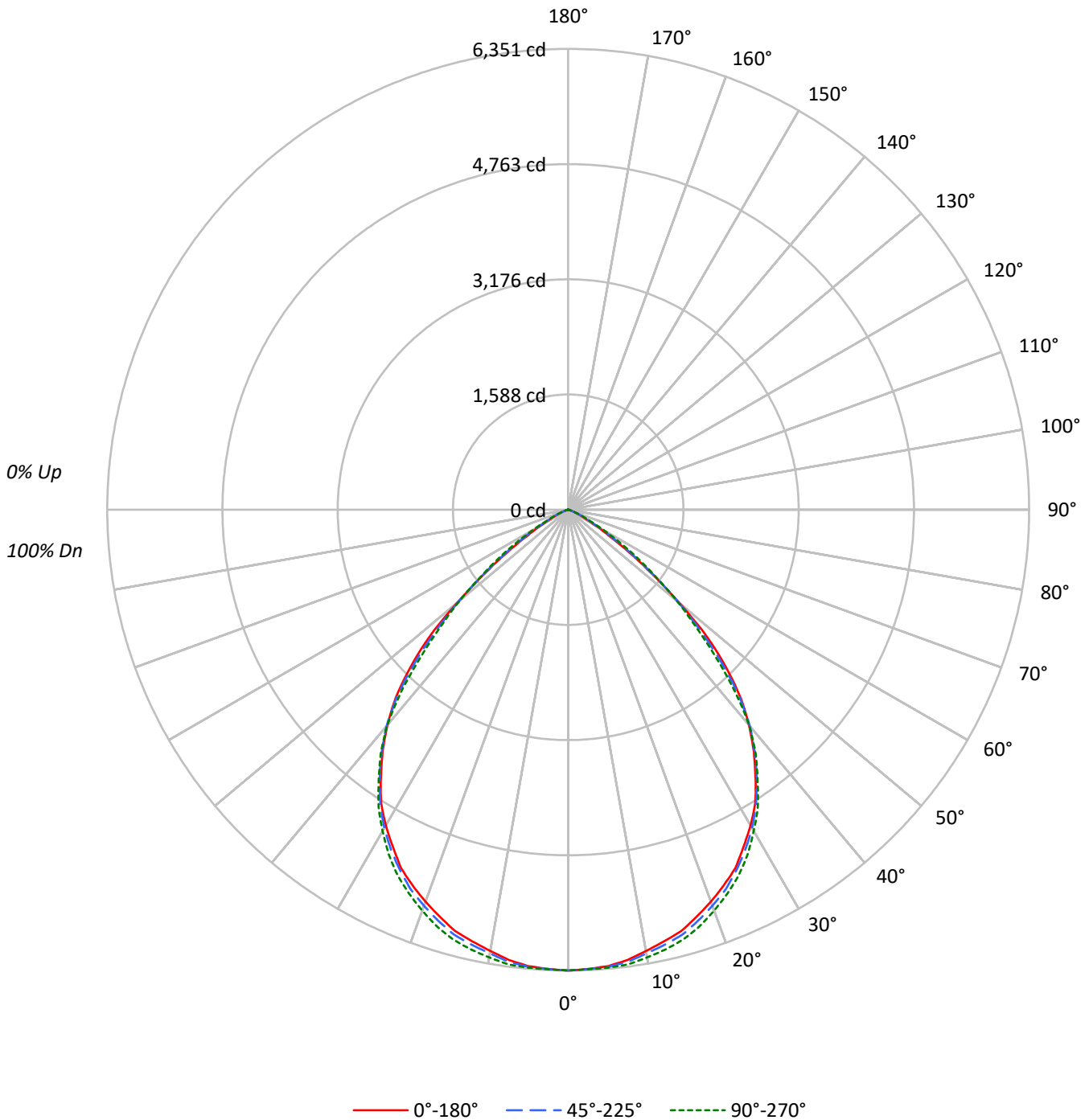
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	102	100	98	99	97	95	95	94	92	91
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

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

	0°	45°	90°
0°	195829	195829	195829
5°	195416	195726	196076
10°	193333	194466	196189
15°	191966	193642	195717
20°	188632	190601	192938
25°	185377	186568	189160
30°	178959	180384	182075
35°	169350	170381	171277
40°	155936	156693	156290
45°	134438	130897	125664
50°	95979	94540	93398
55°	55089	58380	63218
60°	26125	30596	35375
65°	12309	14863	17052
70°	5743	6419	7321
75°	2681	3872	4468
80°	2220	1989	3108
85°	885	2194	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.1	5.4
10°-20°	1707.5	15.2
20°-30°	2522.5	22.5
30°-40°	2818.7	25.2
40°-50°	2275.6	20.3
50°-60°	1012.2	9.0
60°-70°	228.0	2.0
70°-80°	35.2	0.3
80°-90°	4.1	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°	4830.0	43.1
0°-40°	7648.8	68.3
0°-60°	10936.6	97.6
0°-90°	11204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11204.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6351	6351	6351	6351	6351	
5°	6313	6312	6323	6324	6334	598
15°	6013	6017	6066	6111	6131	1691
25°	5448	5448	5483	5528	5560	2498
35°	4499	4496	4526	4531	4550	2804
45°	3083	3059	3002	2895	2882	2331
55°	1025	1040	1086	1142	1176	964
65°	169	190	204	221	234	196
75°	22	31	32	31	38	29
85°	2	4	6	14	4	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6350.6	6350.6	6350.6	6350.6	6350.6
2.5°	6334.4	6330.6	6336.9	6333.1	6339.4
5°	6313.1	6311.9	6323.1	6324.4	6334.4
7.5°	6258.1	6259.4	6283.1	6300.6	6320.6
10°	6174.4	6179.4	6210.6	6249.4	6265.6
12.5°	6094.4	6100.7	6140.7	6194.4	6206.9
15°	6013.2	6016.9	6065.7	6110.7	6130.7
17.5°	5880.7	5905.7	5943.2	5994.5	6020.7
20°	5748.3	5765.8	5808.3	5864.5	5879.5
22.5°	5603.3	5622.1	5664.6	5710.8	5727.0
25°	5448.4	5448.4	5483.4	5528.3	5559.6
27.5°	5232.2	5258.4	5283.4	5323.4	5354.6
30°	5026.0	5036.0	5066.0	5098.5	5113.5
32.5°	4797.3	4798.6	4812.3	4848.5	4862.3
35°	4498.7	4496.2	4526.1	4531.1	4549.9
37.5°	4200.0	4212.5	4223.7	4241.2	4242.5
40°	3873.8	3880.1	3892.6	3873.8	3882.6
42.5°	3518.9	3510.2	3486.5	3430.2	3406.5
45°	3082.8	3059.1	3001.6	2895.4	2881.6
47.5°	2601.7	2543.0	2473.0	2394.3	2379.3
50°	2000.7	2005.6	1970.7	1944.4	1946.9
52.5°	1458.3	1475.8	1484.6	1509.5	1523.3
55°	1024.7	1039.7	1085.9	1142.2	1175.9
57.5°	663.6	692.3	752.3	816.0	839.7
60°	423.6	442.4	496.1	542.3	573.6
62.5°	277.4	283.7	313.7	356.1	357.4
65°	168.7	189.9	203.7	221.2	233.7
67.5°	110.0	110.0	122.5	138.7	142.5
70°	63.7	65.0	71.2	77.5	81.2
72.5°	35.0	38.7	42.5	48.7	55.0
75°	22.5	31.2	32.5	31.2	37.5
77.5°	15.0	15.0	12.5	21.2	22.5
80°	12.5	8.7	11.2	16.2	17.5
82.5°	0.0	1.2	1.2	2.5	0.0
85°	2.5	3.7	6.2	13.7	3.7
87.5°	0.0	3.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)