

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: P247368

Luminaire Tested: **LD8B100D010 ER8B100940 8LBSOWMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247368  
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 ER8B100940 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10378.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

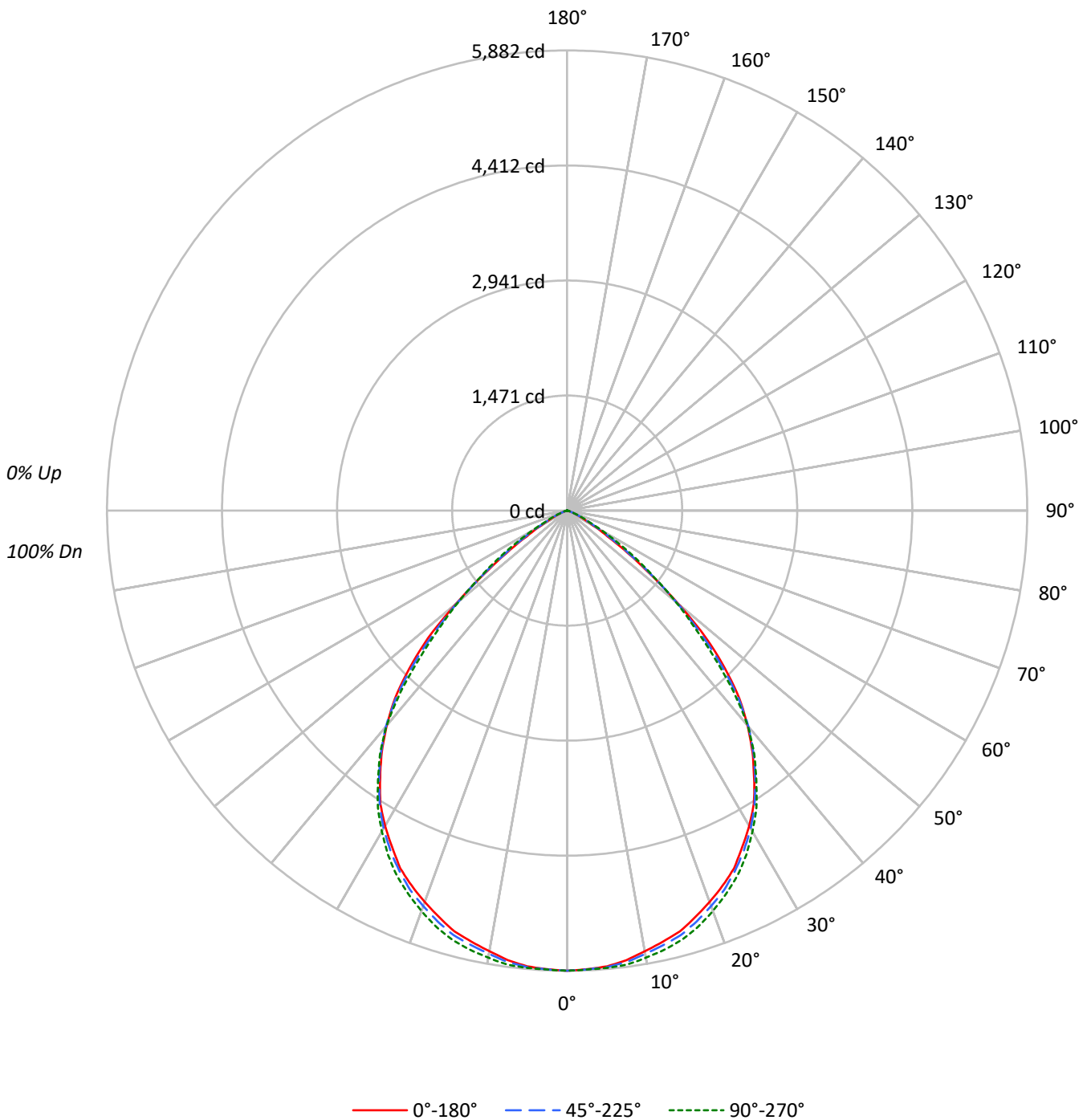
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	181392	181392	181392
5°	181010	181295	181620
10°	179080	180132	181726
15°	177814	179366	181287
20°	174725	176550	178712
25°	171709	172812	175214
30°	165767	167084	168651
35°	156863	157823	158651
40°	144439	145140	144765
45°	124526	121246	116402
50°	88903	87570	86514
55°	51025	54079	58557
60°	24200	28339	32767
65°	11404	13768	15797
70°	5319	5951	6780
75°	2478	3586	4134
80°	2060	1847	2877
85°	814	2052	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.8	5.4
10°-20°	1581.6	15.2
20°-30°	2336.5	22.5
30°-40°	2610.9	25.2
40°-50°	2107.9	20.3
50°-60°	937.6	9.0
60°-70°	211.2	2.0
70°-80°	32.6	0.3
80°-90°	3.9	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°	4473.9	43.1
0°-40°	7084.9	68.3
0°-60°	10130.3	97.6
0°-90°	10378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10378.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5882	5882	5882	5882	5882	
5°	5848	5846	5857	5858	5867	554
15°	5570	5573	5618	5660	5679	1566
25°	5047	5047	5079	5121	5150	2314
35°	4167	4165	4192	4197	4214	2597
45°	2856	2834	2780	2682	2669	2159
55°	949	963	1006	1058	1089	893
65°	156	176	189	205	216	182
75°	21	29	30	29	35	27
85°	2	4	6	13	4	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5882.4	5882.4	5882.4	5882.4	5882.4
2.5°	5867.4	5863.9	5869.7	5866.2	5872.0
5°	5847.7	5846.5	5856.9	5858.1	5867.4
7.5°	5796.8	5797.9	5819.9	5836.1	5854.6
10°	5719.2	5723.8	5752.8	5788.7	5803.7
12.5°	5645.1	5650.9	5687.9	5737.7	5749.3
15°	5569.9	5573.4	5618.5	5660.2	5678.7
17.5°	5447.2	5470.3	5505.1	5552.5	5576.8
20°	5324.5	5340.7	5380.1	5432.1	5446.0
22.5°	5190.2	5207.6	5246.9	5289.8	5304.8
25°	5046.7	5046.7	5079.1	5120.8	5149.7
27.5°	4846.4	4870.8	4893.9	4930.9	4959.9
30°	4655.5	4664.7	4692.5	4722.6	4736.5
32.5°	4443.6	4444.8	4457.5	4491.1	4503.8
35°	4167.0	4164.7	4192.5	4197.1	4214.5
37.5°	3890.4	3901.9	3912.3	3928.6	3929.7
40°	3588.2	3594.0	3605.6	3588.2	3596.3
42.5°	3259.5	3251.4	3229.4	3177.3	3155.3
45°	2855.5	2833.6	2780.3	2681.9	2669.2
47.5°	2409.9	2355.5	2290.7	2217.8	2203.9
50°	1853.2	1857.8	1825.4	1801.1	1803.4
52.5°	1350.8	1367.0	1375.1	1398.3	1411.0
55°	949.1	963.0	1005.9	1058.0	1089.2
57.5°	614.6	641.3	696.8	755.8	777.8
60°	392.4	409.8	459.5	502.4	531.3
62.5°	257.0	262.8	290.5	329.9	331.0
65°	156.3	175.9	188.7	204.9	216.5
67.5°	101.9	101.9	113.4	128.5	132.0
70°	59.0	60.2	66.0	71.8	75.2
72.5°	32.4	35.9	39.4	45.1	50.9
75°	20.8	28.9	30.1	28.9	34.7
77.5°	13.9	13.9	11.6	19.7	20.8
80°	11.6	8.1	10.4	15.0	16.2
82.5°	0.0	1.2	1.2	2.3	0.0
85°	2.3	3.5	5.8	12.7	3.5
87.5°	0.0	3.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)