

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: P247650

Luminaire Tested: **LD8B80D010 ER8B80935 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247650  
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: LD8B80D010 ER8B80935 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6631.0 lumens  
Efficiency: N/A  
Efficacy: 89.1 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

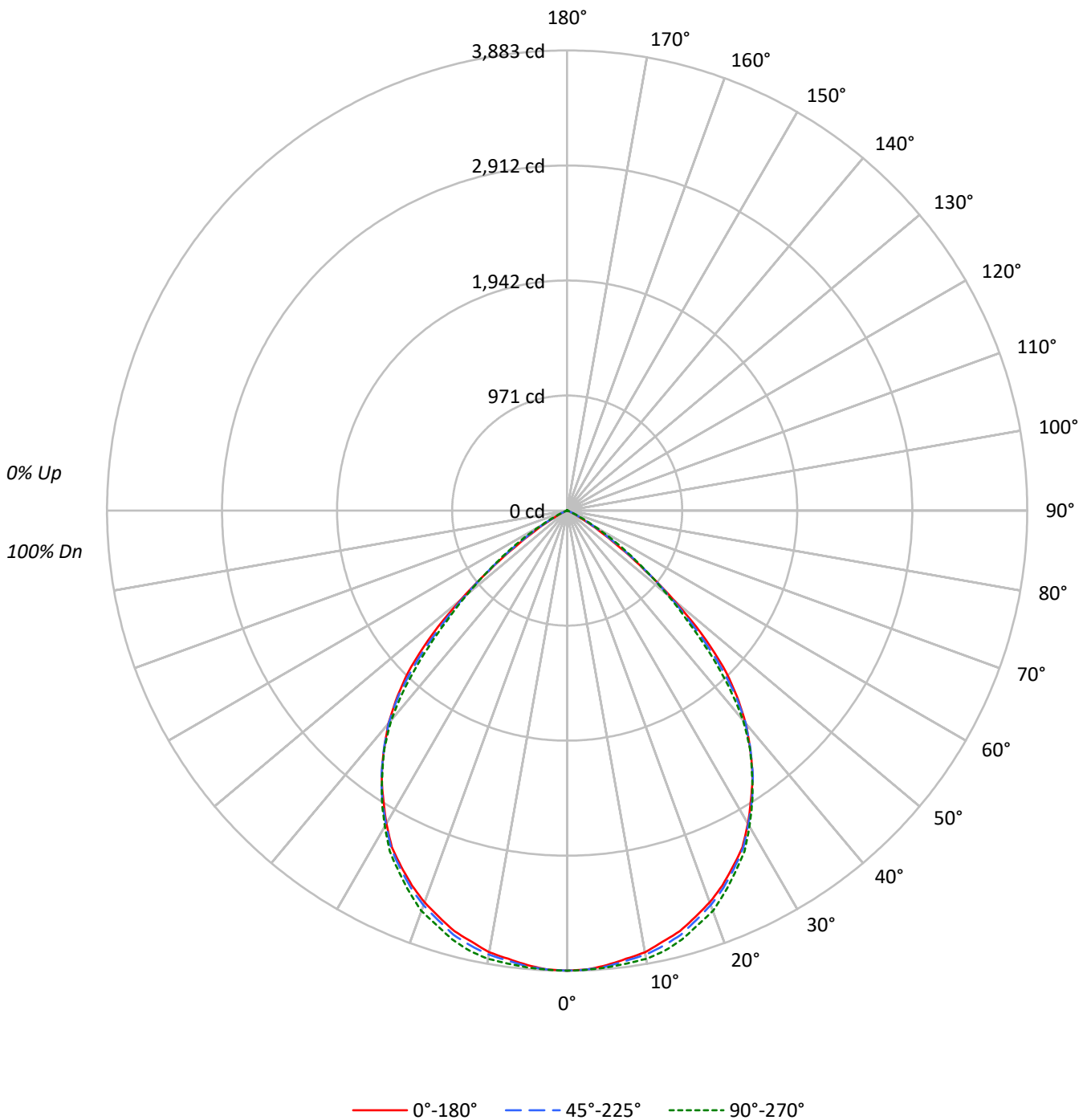
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	119725	119725	119725
5°	119179	119495	119786
10°	118500	119142	120263
15°	117305	118314	119591
20°	115431	116271	117978
25°	112749	113358	114372
30°	108579	108853	109551
35°	102690	102851	102434
40°	94363	94263	92954
45°	81144	77834	74262
50°	56411	54411	52895
55°	29434	31999	33880
60°	11940	14092	16356
65°	3794	4670	4976
70°	541	307	153
75°	0	0	0
80°	1367	302	462
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.7	5.5
10°-20°	1043.4	15.7
20°-30°	1532.8	23.1
30°-40°	1697.0	25.6
40°-50°	1352.4	20.4
50°-60°	554.2	8.4
60°-70°	81.6	1.2
70°-80°	1.2	0.0
80°-90°	1.7	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°	2942.9	44.4
0°-40°	4640.0	70.0
0°-60°	6546.6	98.7
0°-90°	6631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6631.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3883	3883	3883	3883	3883	
5°	3850	3857	3860	3866	3870	365
15°	3674	3677	3706	3741	3746	1034
25°	3314	3310	3332	3351	3362	1524
35°	2728	2724	2732	2729	2721	1696
45°	1861	1844	1785	1718	1703	1396
55°	548	566	595	629	630	527
65°	52	55	64	70	68	69
75°	0	0	0	0	0	2
85°	0	0	0	3	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3882.6	3882.6	3882.6	3882.6	3882.6
2.5°	3875.7	3876.6	3876.6	3872.3	3877.5
5°	3850.2	3857.0	3860.4	3866.4	3869.8
7.5°	3814.4	3812.6	3830.6	3851.9	3854.4
10°	3784.5	3781.1	3805.0	3833.1	3840.8
12.5°	3725.7	3729.9	3760.6	3789.6	3805.0
15°	3674.5	3677.1	3706.1	3741.0	3746.1
17.5°	3595.2	3602.9	3622.5	3659.1	3666.0
20°	3517.6	3521.0	3543.2	3573.0	3595.2
22.5°	3422.9	3428.9	3446.0	3472.4	3483.5
25°	3313.8	3310.4	3331.7	3351.3	3361.5
27.5°	3202.9	3197.0	3213.2	3231.9	3241.3
30°	3049.4	3047.7	3057.1	3069.0	3076.7
32.5°	2888.3	2892.5	2901.9	2905.3	2907.9
35°	2727.9	2724.5	2732.2	2728.8	2721.1
37.5°	2537.8	2540.3	2540.3	2536.9	2533.5
40°	2344.2	2346.8	2341.7	2322.9	2309.2
42.5°	2117.4	2119.1	2092.6	2050.9	2022.7
45°	1860.7	1843.6	1784.8	1718.3	1702.9
47.5°	1537.5	1508.5	1447.1	1396.8	1378.9
50°	1175.9	1154.6	1134.2	1107.7	1102.6
52.5°	824.6	835.7	843.4	851.9	849.3
55°	547.5	566.2	595.2	629.3	630.2
57.5°	329.2	350.5	387.1	424.7	442.6
60°	193.6	202.1	228.5	256.7	265.2
62.5°	104.9	107.4	119.4	147.5	143.3
65°	52.0	54.6	64.0	69.9	68.2
67.5°	25.6	28.1	29.8	38.4	31.6
70°	6.0	1.7	3.4	4.3	1.7
72.5°	0.0	0.0	1.7	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.7	0.0	0.0	0.0	3.4
80°	7.7	5.1	1.7	1.7	2.6
82.5°	2.6	0.9	2.6	0.9	0.0
85°	0.0	0.0	0.0	3.4	0.0
87.5°	4.3	0.9	0.9	2.6	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)