

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: P250176

Luminaire Tested: **LD8B80D010 ER8B80940 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80940 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7478.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

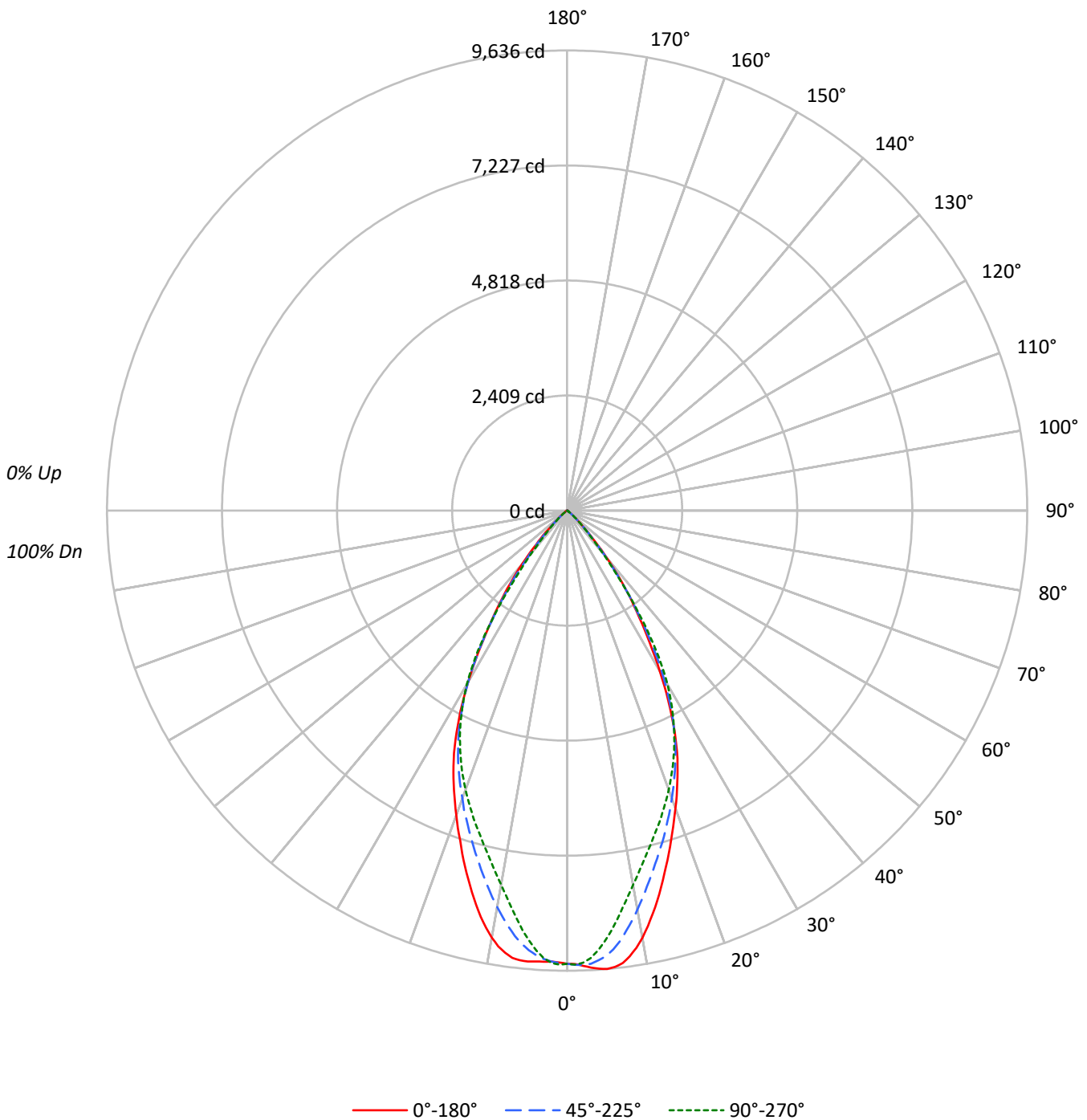
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76				76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71				71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66				66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62				62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55				55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52				52

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

	0°	90°	180°
0°	292643	292643	292643
5°	298261	280193	293405
10°	284369	249259	284297
15°	251109	224813	255383
20°	217612	204059	222760
25°	183863	180722	190613
30°	138190	149609	147640
35°	92507	97803	100322
40°	51827	44489	59443
45°	20828	18311	24753
50°	7196	6975	8525
55°	1984	2360	2236
60°	1141	1425	1283
65°	1007	839	671
70°	0	622	415
75°	0	0	0
80°	0	0	408
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	861.5	11.5
10°-20°	2083.7	27.9
20°-30°	2442.2	32.7
30°-40°	1606.9	21.5
40°-50°	419.3	5.6
50°-60°	51.6	0.7
60°-70°	10.7	0.1
70°-80°	2.0	0.0
80°-90°	0.1	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°	5387.5	72.0
0°-40°	6994.4	93.5
0°-60°	7465.2	99.8
0°-90°	7478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7478.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9490	9490	9490	9490	9490	
5°	9636	9361	9052	9239	9479	903
15°	7866	7420	7042	7420	8000	2193
25°	5404	5351	5312	5402	5602	2436
35°	2457	2513	2598	2624	2665	1539
45°	478	450	420	487	568	428
55°	37	39	44	44	42	49
65°	14	12	12	9	9	10
75°	0	2	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9490.2	9490.2	9490.2	9490.2	9490.2	9490.2	9490.2	9490.2	9490.2
1°	9497.1	9511.0	9515.6	9529.5	9508.7	9494.9	9476.4	9462.5	9464.8
2°	9538.7	9545.6	9520.2	9511.0	9474.1	9462.5	9448.7	9446.4	9448.7
3°	9582.6	9568.7	9501.8	9439.5	9384.1	9377.2	9402.6	9439.5	9460.2
4°	9617.2	9580.2	9439.5	9324.1	9236.4	9229.5	9331.0	9425.6	9464.8
5°	9635.6	9568.7	9361.0	9167.2	9051.9	9095.7	9238.7	9407.1	9478.7
6°	9610.2	9511.0	9241.0	8982.6	8851.1	8908.8	9118.8	9363.3	9469.5
7°	9545.6	9418.7	9086.5	8781.9	8620.4	8710.3	8978.0	9289.5	9434.9
8°	9425.6	9273.3	8890.3	8548.8	8389.6	8491.1	8805.0	9183.3	9351.8
9°	9268.7	9100.3	8696.5	8336.5	8165.8	8285.8	8625.0	9042.6	9236.4
10°	9081.8	8901.8	8481.9	8115.1	7960.5	8073.5	8431.2	8878.8	9079.5
11°	8862.6	8689.6	8267.3	7907.4	7759.7	7870.5	8237.3	8682.7	8899.5
12°	8625.0	8465.8	8048.2	7706.6	7568.2	7674.3	8029.7	8479.6	8694.2
13°	8387.3	8228.1	7835.9	7512.8	7385.9	7487.4	7826.6	8258.1	8472.7
14°	8131.2	7985.8	7623.6	7328.2	7212.9	7309.7	7619.0	8034.3	8237.3
15°	7865.8	7750.5	7420.5	7150.5	7042.1	7134.4	7420.5	7803.5	7999.7
16°	7616.6	7510.5	7224.4	6975.2	6885.2	6959.0	7219.8	7572.8	7759.7
17°	7362.8	7265.9	7028.2	6802.1	6721.4	6792.9	7014.4	7339.8	7508.2
18°	7109.0	7028.2	6813.7	6619.9	6548.4	6612.9	6811.4	7104.4	7256.7
19°	6873.7	6799.8	6617.6	6453.7	6389.1	6446.8	6633.7	6878.3	7030.6
20°	6631.4	6571.4	6412.2	6278.4	6218.4	6271.4	6416.8	6654.5	6788.3
21°	6398.3	6345.3	6206.8	6093.8	6045.3	6089.2	6223.0	6437.6	6555.2
22°	6156.1	6126.1	6001.5	5906.9	5874.6	5902.3	6024.5	6209.2	6319.9
23°	5918.4	5890.7	5796.1	5717.7	5690.0	5717.7	5826.1	5992.2	6091.5
24°	5678.5	5648.5	5579.3	5528.4	5505.4	5528.4	5620.8	5761.5	5856.1
25°	5403.9	5399.3	5350.8	5323.1	5311.6	5336.9	5401.6	5523.9	5602.3
26°	5140.8	5127.0	5113.1	5108.5	5110.8	5124.7	5177.7	5270.0	5332.4
27°	4817.8	4838.6	4859.3	4887.0	4896.2	4907.8	4933.2	5000.1	5046.2
28°	4508.6	4547.8	4598.6	4654.0	4679.4	4679.4	4681.6	4718.6	4757.8
29°	4201.7	4243.2	4324.0	4407.1	4441.7	4437.1	4418.6	4434.7	4457.8
30°	3881.0	3934.1	4042.5	4151.0	4201.7	4183.3	4148.7	4132.5	4146.4
31°	3567.2	3620.3	3740.3	3857.9	3924.8	3904.1	3844.1	3832.6	3839.5
32°	3267.3	3320.3	3431.0	3555.6	3631.8	3604.1	3541.8	3523.4	3525.7
33°	2976.5	3018.1	3119.6	3235.0	3297.2	3290.3	3239.5	3216.5	3218.8
34°	2701.9	2736.6	2812.7	2900.4	2960.4	2958.0	2921.1	2923.4	2930.4
35°	2457.4	2475.8	2512.7	2561.2	2598.1	2618.8	2623.5	2641.9	2665.0
37.5°	1857.5	1864.3	1820.5	1772.0	1762.8	1822.8	1926.7	2016.7	2051.3
40°	1287.5	1271.4	1216.0	1130.6	1105.2	1172.2	1303.7	1430.6	1476.7
42.5°	800.7	793.7	759.1	694.5	671.5	710.7	809.9	906.8	952.9
45°	477.6	468.4	449.9	424.6	419.9	436.1	486.8	542.2	567.6
47.5°	274.6	272.3	260.7	251.5	249.2	260.7	283.8	316.1	323.0
50°	150.0	147.7	145.4	145.4	145.4	152.3	163.8	173.0	177.7
52.5°	73.8	76.2	73.8	76.2	78.5	83.0	80.7	90.0	90.0
55°	36.9	34.6	39.2	43.9	43.9	43.9	43.9	43.9	41.6
57.5°	27.7	30.0	25.4	27.7	25.4	25.4	23.1	25.4	27.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	18.5	16.1	18.5	20.8	23.1	20.8	16.1	18.5	20.8
62.5°	9.2	9.2	9.2	13.8	20.8	16.1	13.8	11.5	11.5
65°	13.8	9.2	11.5	13.8	11.5	11.5	9.2	11.5	9.2
67.5°	6.9	11.5	6.9	4.6	6.9	9.2	6.9	4.6	4.6
70°	0.0	2.3	2.3	6.9	6.9	6.9	6.9	4.6	4.6
72.5°	2.3	2.3	2.3	4.6	2.3	4.6	2.3	2.3	4.6
75°	0.0	0.0	2.3	2.3	0.0	2.3	0.0	0.0	0.0
77.5°	2.3	0.0	2.3	2.3	0.0	0.0	0.0	2.3	0.0
80°	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	2.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)