

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: P247158

Luminaire Tested: **LD8B80D010 ER8B80850 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80850 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8543.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

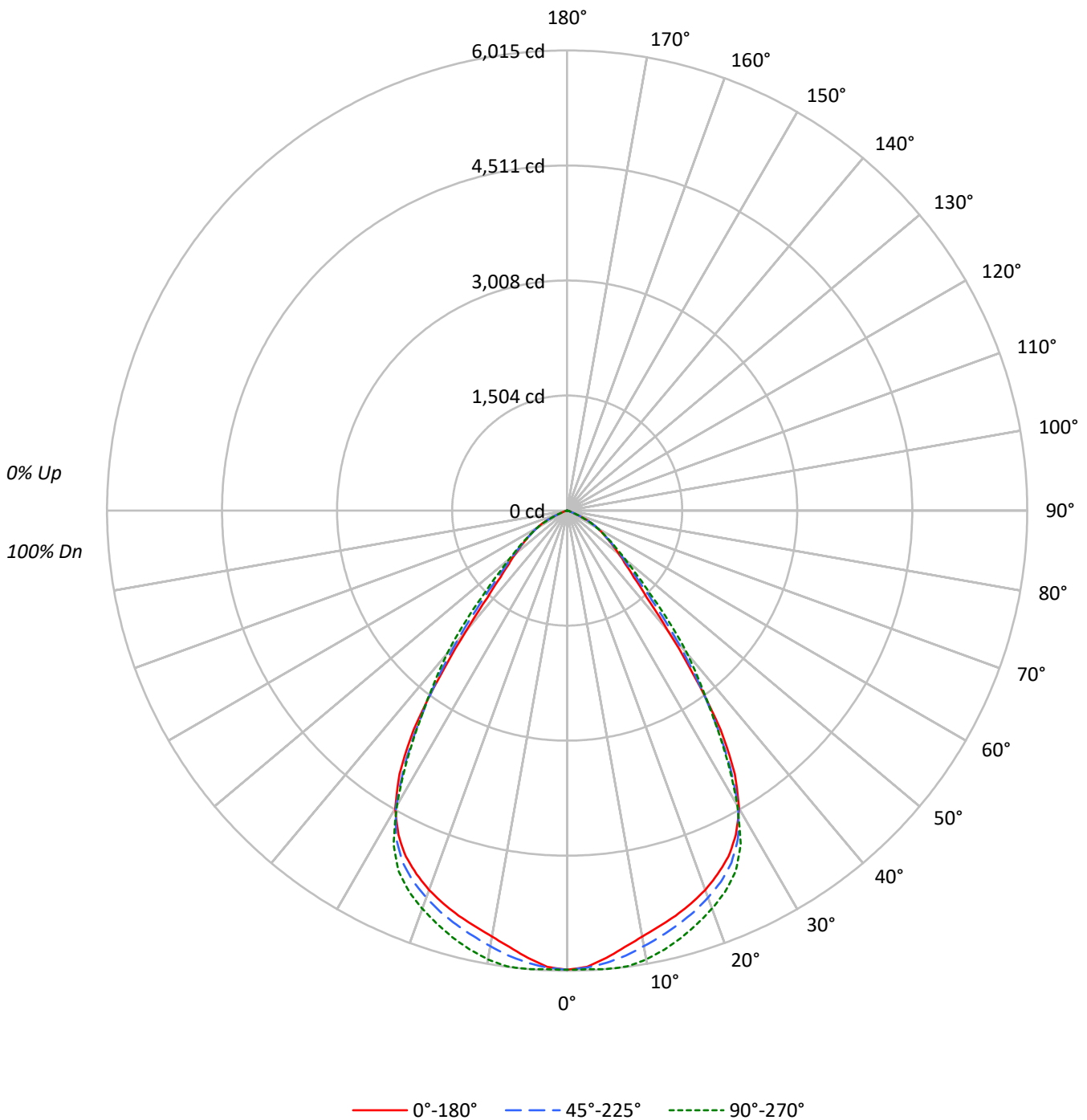
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

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

	0°	45°	90°
0°	185073	185073	185073
5°	181673	183651	186189
10°	177019	181046	186535
15°	175014	178861	184426
20°	173186	176674	181728
25°	169777	172842	177187
30°	160074	159351	158379
35°	131672	127132	126409
40°	82448	90970	98352
45°	53805	59989	66482
50°	42422	44466	47378
55°	34579	35182	36267
60°	28302	28110	27987
65°	18329	17811	16855
70°	6302	5842	5392
75°	2168	2049	1930
80°	906	728	728
85°	354	354	354



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	562.2	6.6
10°-20°	1584.1	18.5
20°-30°	2316.7	27.1
30°-40°	2099.2	24.6
40°-50°	1116.2	13.1
50°-60°	595.7	7.0
60°-70°	243.0	2.8
70°-80°	24.5	0.3
80°-90°	1.4	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°	4463.0	52.2
0°-40°	6562.2	76.8
0°-60°	8274.1	96.9
0°-90°	8543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6002	6002	6002	6002	6002	
5°	5869	5884	5933	5987	6015	553
15°	5482	5514	5603	5718	5777	1547
25°	4990	5011	5080	5167	5208	2280
35°	3498	3449	3377	3352	3358	2102
45°	1234	1270	1376	1485	1524	1009
55°	643	642	654	664	675	583
65°	251	250	244	230	231	250
75°	18	18	17	16	16	26
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6001.8	6001.8	6001.8	6001.8	6001.8
2.5°	5969.4	5968.4	5979.6	5992.7	5999.8
5°	5869.1	5884.3	5933.0	5986.7	6015.0
7.5°	5755.7	5784.1	5868.1	5960.3	6009.9
10°	5653.4	5689.9	5782.0	5902.6	5957.3
12.5°	5565.3	5600.7	5693.9	5817.5	5877.3
15°	5482.2	5513.6	5602.7	5718.2	5777.0
17.5°	5386.0	5416.3	5502.5	5611.9	5662.5
20°	5277.6	5302.9	5383.9	5486.2	5537.9
22.5°	5142.8	5170.2	5252.2	5346.5	5395.1
25°	4989.9	5011.2	5080.0	5167.2	5207.7
27.5°	4777.2	4796.4	4836.9	4883.5	4913.9
30°	4495.6	4490.5	4475.3	4461.1	4448.0
32.5°	4080.2	4031.6	3957.7	3911.1	3913.1
35°	3497.8	3449.2	3377.2	3351.9	3358.0
37.5°	2733.0	2769.5	2798.8	2847.5	2870.8
40°	2048.2	2111.0	2259.9	2389.6	2443.3
42.5°	1539.7	1601.5	1757.5	1894.3	1968.2
45°	1233.8	1270.3	1375.6	1485.0	1524.5
47.5°	1033.2	1049.4	1110.2	1180.1	1214.6
50°	884.3	894.5	926.9	965.4	987.6
52.5°	757.7	761.8	778.0	800.2	814.4
55°	643.2	642.2	654.4	663.5	674.6
57.5°	544.0	543.0	543.0	546.0	553.1
60°	458.9	455.8	455.8	451.8	453.8
62.5°	373.8	370.7	363.7	358.6	356.6
65°	251.2	250.2	244.1	229.9	231.0
67.5°	130.7	129.7	123.6	119.5	117.5
70°	69.9	67.9	64.8	61.8	59.8
72.5°	35.5	34.4	33.4	31.4	31.4
75°	18.2	18.2	17.2	16.2	16.2
77.5°	9.1	9.1	8.1	8.1	8.1
80°	5.1	5.1	4.1	4.1	4.1
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)