

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: P247494

Luminaire Tested: **LD8B80D010 ER8B80850 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80850 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7689.0 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

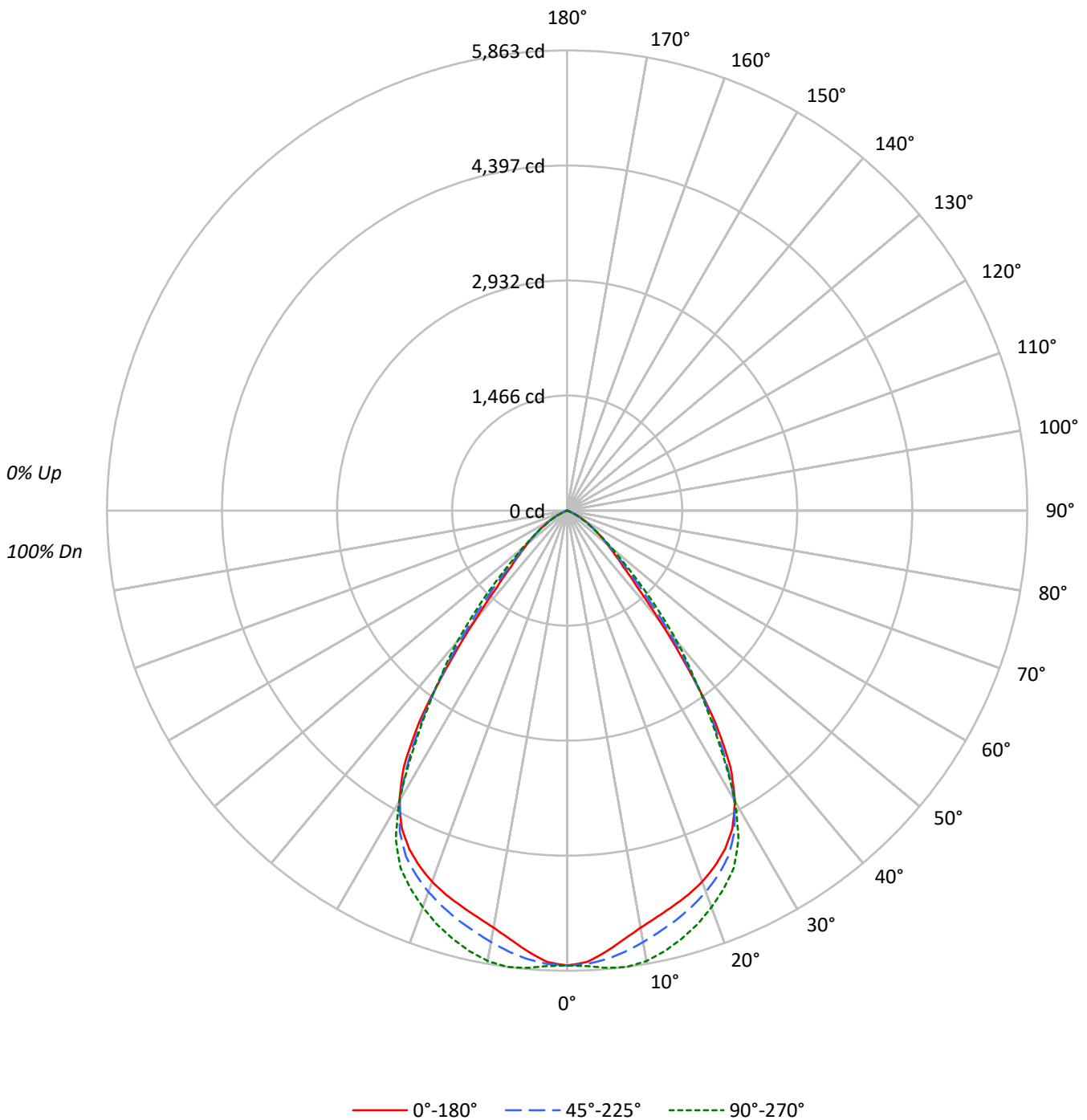
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247494

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBW0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P247494

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBW0GPH

**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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84					84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

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

	0°	45°	90°
0°	178743	178743	178743
5°	174693	177639	181026
10°	168910	174809	182421
15°	166522	172211	180199
20°	165120	169642	176455
25°	161934	165381	170927
30°	152226	151649	152372
35°	123688	119532	117702
40°	73427	80931	87657
45°	43949	49470	56182
50°	32022	32847	35274
55°	23198	22381	22870
60°	15739	14555	13994
65°	7909	7318	6946
70°	2191	1920	1731
75°	846	608	608
80°	355	355	178
85°	354	0	0



TEST NUMBER: P247494

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBW0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	543.5	7.1
10°-20°	1526.2	19.8
20°-30°	2218.3	28.9
30°-40°	1961.7	25.5
40°-50°	933.2	12.1
50°-60°	388.7	5.1
60°-70°	108.6	1.4
70°-80°	8.2	0.1
80°-90°	0.6	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°	4288.0	55.8
0°-40°	6249.7	81.3
0°-60°	7571.6	98.5
0°-90°	7689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7689.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5796	5796	5796	5796	5796	
5°	5644	5672	5739	5815	5848	531
15°	5216	5264	5394	5558	5645	1473
25°	4759	4781	4861	4968	5024	2175
35°	3286	3239	3175	3127	3127	1967
45°	1008	1043	1134	1240	1288	839
55°	432	426	416	416	425	393
65°	108	106	100	96	95	118
75°	7	6	5	5	5	10
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P247494

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBW0GPH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5796.5	5796.5	5796.5	5796.5	5796.5
2.5°	5758.0	5763.1	5782.4	5800.6	5808.7
5°	5643.6	5672.0	5738.8	5814.8	5848.2
7.5°	5512.9	5555.5	5667.9	5801.6	5863.4
10°	5394.4	5448.1	5582.8	5747.9	5825.9
12.5°	5301.2	5350.9	5488.6	5660.8	5748.9
15°	5216.2	5263.8	5394.4	5558.5	5644.6
17.5°	5131.1	5176.7	5289.1	5442.0	5525.1
20°	5031.8	5068.3	5169.6	5304.3	5377.2
22.5°	4908.3	4941.7	5026.8	5146.3	5212.1
25°	4759.4	4780.6	4860.7	4968.0	5023.7
27.5°	4561.9	4566.9	4615.6	4685.4	4727.0
30°	4275.2	4272.2	4259.0	4256.0	4279.3
32.5°	3874.1	3829.6	3752.6	3716.1	3687.8
35°	3285.7	3239.1	3175.3	3126.7	3126.7
37.5°	2511.9	2552.4	2577.7	2608.1	2623.3
40°	1824.1	1883.9	2010.5	2142.2	2177.6
42.5°	1325.8	1381.5	1518.3	1665.1	1707.7
45°	1007.8	1043.2	1134.4	1239.7	1288.3
47.5°	814.3	824.5	870.0	932.8	956.1
50°	667.5	670.5	684.7	717.1	735.3
52.5°	539.8	537.8	541.9	551.0	559.1
55°	431.5	426.4	416.3	416.3	425.4
57.5°	333.2	326.1	315.0	309.9	306.9
60°	255.2	248.1	236.0	227.9	226.9
62.5°	183.3	177.2	165.1	158.0	156.0
65°	108.4	106.3	100.3	96.2	95.2
67.5°	50.6	48.6	43.6	41.5	40.5
70°	24.3	23.3	21.3	20.3	19.2
72.5°	12.2	12.2	10.1	10.1	10.1
75°	7.1	6.1	5.1	5.1	5.1
77.5°	4.1	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	0.0	0.0	0.0
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)