

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: P247590

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80850 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5601.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

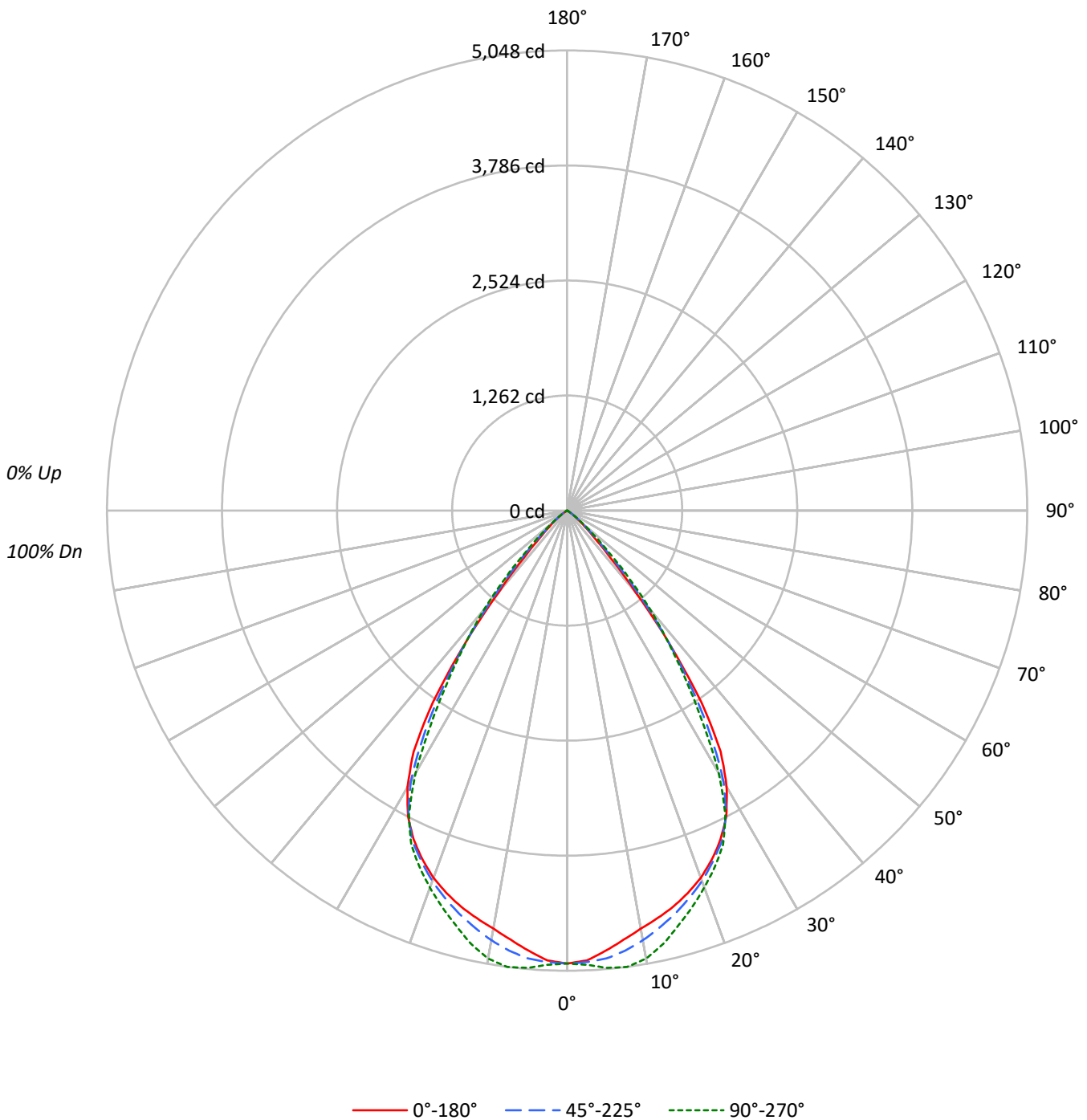
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247590

CATALOG NUMBER: LSR8B80D010 EC8B80850 8LBW0B

Luminous Intensity Polar Plot





TEST NUMBER: P247590

CATALOG NUMBER: LSR8B80D010 EC8B80850 8LBW0B

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	100	100	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	153195	153195	153195
5°	150047	152681	155879
10°	145820	149881	156256
15°	143595	146149	150449
20°	140656	141953	144414
25°	135467	136430	137638
30°	124638	122220	118613
35°	96576	89981	85482
40°	46928	53248	57040
45°	18154	23366	28311
50°	8501	9719	11125
55°	3538	3812	3919
60°	1184	1122	1061
65°	146	219	219
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P247590

CATALOG NUMBER: LSR8B80D010 EC8B80850 8LBW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.0	8.3
10°-20°	1292.3	23.1
20°-30°	1821.0	32.5
30°-40°	1473.2	26.3
40°-50°	467.7	8.4
50°-60°	74.8	1.3
60°-70°	5.1	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3580.3	63.9
0°-40°	5053.5	90.2
0°-60°	5595.9	99.9
0°-90°	5601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4968	4968	4968	4968	4968	
5°	4847	4870	4932	5004	5036	457
15°	4498	4515	4578	4665	4713	1267
25°	3982	3989	4010	4032	4045	1818
35°	2566	2496	2390	2304	2271	1521
45°	416	450	536	612	649	388
55°	66	67	71	74	73	69
65°	2	3	3	3	3	5
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P247590

CATALOG NUMBER: LSR8B80D010 EC8B80850 8LBW0B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4968.0	4968.0	4968.0	4968.0	4968.0
2.5°	4939.6	4944.7	4956.8	4980.1	4987.2
5°	4847.4	4869.7	4932.5	5004.4	5035.8
7.5°	4748.2	4777.6	4869.7	4991.3	5048.0
10°	4657.0	4688.4	4786.7	4916.3	4990.3
12.5°	4580.1	4604.4	4684.4	4800.9	4869.7
15°	4498.0	4515.2	4578.0	4665.1	4712.7
17.5°	4399.8	4415.0	4456.5	4524.4	4560.8
20°	4286.3	4290.4	4325.8	4369.4	4400.8
22.5°	4145.6	4149.6	4169.9	4211.4	4232.7
25°	3981.5	3988.6	4009.8	4032.1	4045.3
27.5°	3779.9	3783.0	3772.8	3754.6	3758.6
30°	3500.4	3489.2	3432.5	3354.5	3331.2
32.5°	3133.7	3059.8	2937.2	2827.8	2783.3
35°	2565.5	2495.6	2390.3	2304.2	2270.8
37.5°	1843.4	1848.4	1841.3	1822.1	1826.1
40°	1165.8	1212.4	1322.8	1394.7	1417.0
42.5°	699.9	750.5	872.1	969.3	1000.7
45°	416.3	449.7	535.8	611.8	649.2
47.5°	267.4	283.6	326.1	370.7	392.0
50°	177.2	185.3	202.6	222.8	231.9
52.5°	113.4	116.5	124.6	131.7	138.8
55°	65.8	66.8	70.9	73.9	72.9
57.5°	34.4	34.4	34.4	34.4	34.4
60°	19.2	18.2	18.2	18.2	17.2
62.5°	9.1	9.1	9.1	8.1	8.1
65°	2.0	3.0	3.0	3.0	3.0
67.5°	0.0	0.0	0.0	0.0	1.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)