

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: P247206

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80850 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9276.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

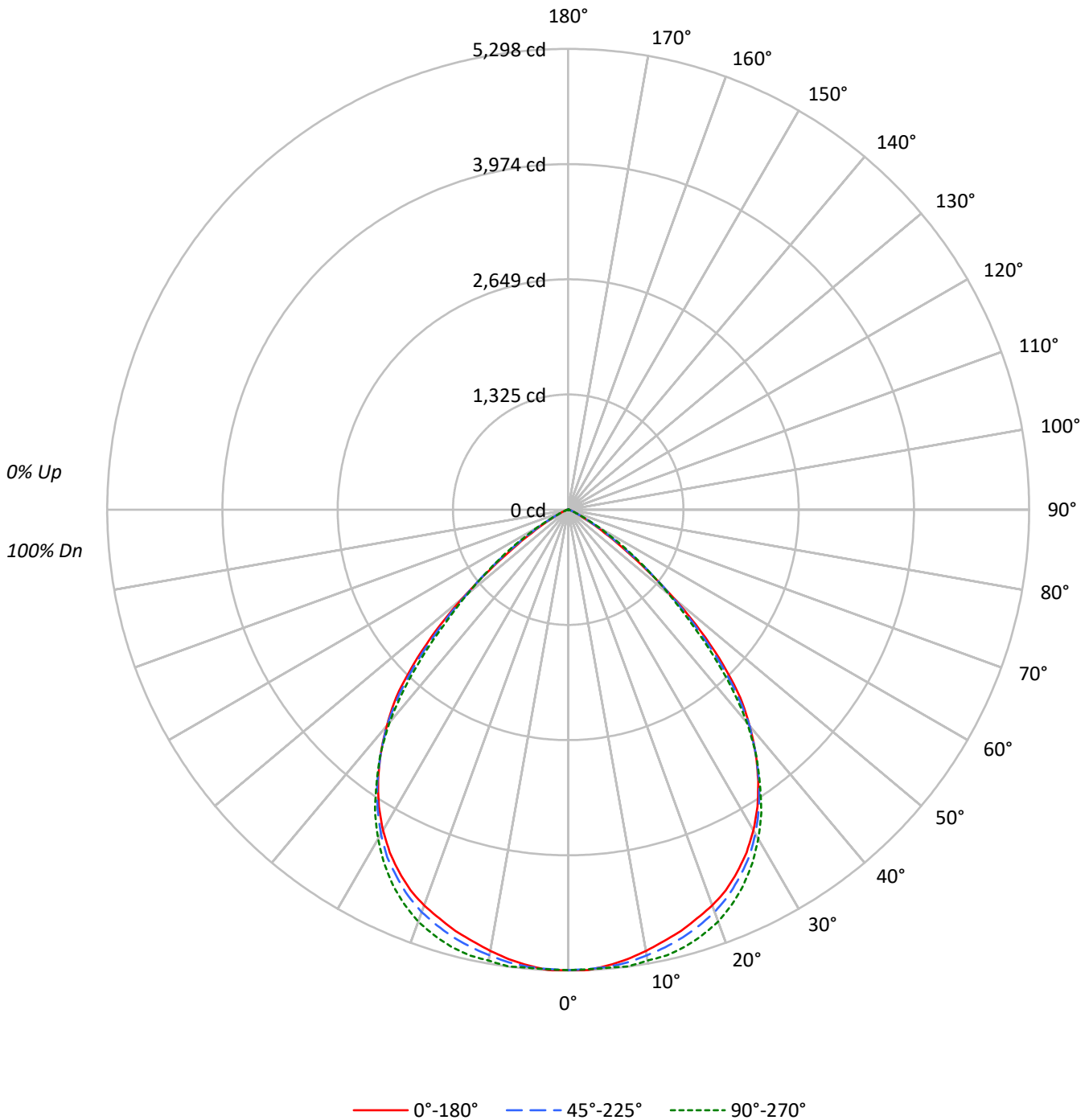
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	163235	163235	163235
5°	162825	163295	163639
10°	161282	162901	164801
15°	160004	162526	166018
20°	158885	161514	165402
25°	156399	158569	162087
30°	151556	153216	155559
35°	143334	143985	144516
40°	130560	130439	128684
45°	109773	106459	101862
50°	76243	74540	72549
55°	40789	45090	47756
60°	19741	22424	25298
65°	8646	8719	9091
70°	4661	4292	4201
75°	4098	3741	2657
80°	178	728	0
85°	354	354	1804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.5	5.4
10°-20°	1438.1	15.5
20°-30°	2145.7	23.1
30°-40°	2376.4	25.6
40°-50°	1853.3	20.0
50°-60°	776.8	8.4
60°-70°	155.6	1.7
70°-80°	24.8	0.3
80°-90°	3.9	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°	4085.3	44.0
0°-40°	6461.7	69.7
0°-60°	9091.8	98.0
0°-90°	9276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5294	5294	5294	5294	5294	
5°	5260	5264	5275	5290	5286	499
15°	5012	5034	5091	5166	5200	1414
25°	4597	4615	4660	4732	4764	2112
35°	3808	3802	3825	3843	3839	2366
45°	2517	2506	2441	2366	2336	1904
55°	759	788	839	872	888	739
65°	118	118	120	129	125	143
75°	34	31	31	24	22	28
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5293.6	5293.6	5293.6	5293.6	5293.6
2.5°	5297.7	5287.5	5285.5	5291.6	5287.5
5°	5260.2	5264.2	5275.4	5289.6	5286.5
7.5°	5211.6	5218.7	5249.0	5285.5	5294.6
10°	5150.8	5166.0	5202.5	5244.0	5263.2
12.5°	5079.9	5100.1	5152.8	5212.6	5248.0
15°	5012.0	5034.3	5091.0	5166.0	5200.4
17.5°	4926.9	4956.3	5012.0	5093.1	5128.5
20°	4841.8	4868.2	4921.9	5000.9	5040.4
22.5°	4736.5	4755.7	4806.4	4873.2	4913.8
25°	4596.7	4614.9	4660.5	4732.5	4763.9
27.5°	4440.7	4462.0	4503.5	4553.2	4581.5
30°	4256.4	4273.6	4303.0	4347.5	4368.8
32.5°	4048.7	4049.7	4079.1	4112.5	4131.8
35°	3807.6	3801.6	3824.9	3843.1	3839.0
37.5°	3541.2	3542.2	3540.2	3542.2	3546.3
40°	3243.4	3229.2	3240.4	3215.1	3196.8
42.5°	2927.4	2913.2	2869.7	2813.9	2783.6
45°	2517.2	2506.0	2441.2	2366.2	2335.8
47.5°	2066.4	2032.0	1979.3	1915.5	1886.1
50°	1589.3	1585.2	1553.8	1538.7	1512.3
52.5°	1136.5	1136.5	1175.0	1168.9	1167.9
55°	758.7	788.1	838.7	872.1	888.3
57.5°	494.3	521.7	564.2	599.7	615.9
60°	320.1	333.3	363.6	391.0	410.2
62.5°	198.5	209.7	225.9	243.1	250.2
65°	118.5	118.5	119.5	128.6	124.6
67.5°	80.0	83.1	79.0	79.0	89.1
70°	51.7	48.6	47.6	46.6	46.6
72.5°	33.4	28.4	30.4	32.4	28.4
75°	34.4	31.4	31.4	24.3	22.3
77.5°	12.2	13.2	9.1	7.1	6.1
80°	1.0	4.1	4.1	1.0	0.0
82.5°	12.2	11.1	9.1	14.2	9.1
85°	1.0	2.0	1.0	0.0	5.1
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)