

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: P247194

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247194
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 EC8B80830 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8807.0 lumens
Efficiency: N/A
Efficacy: 118.4 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

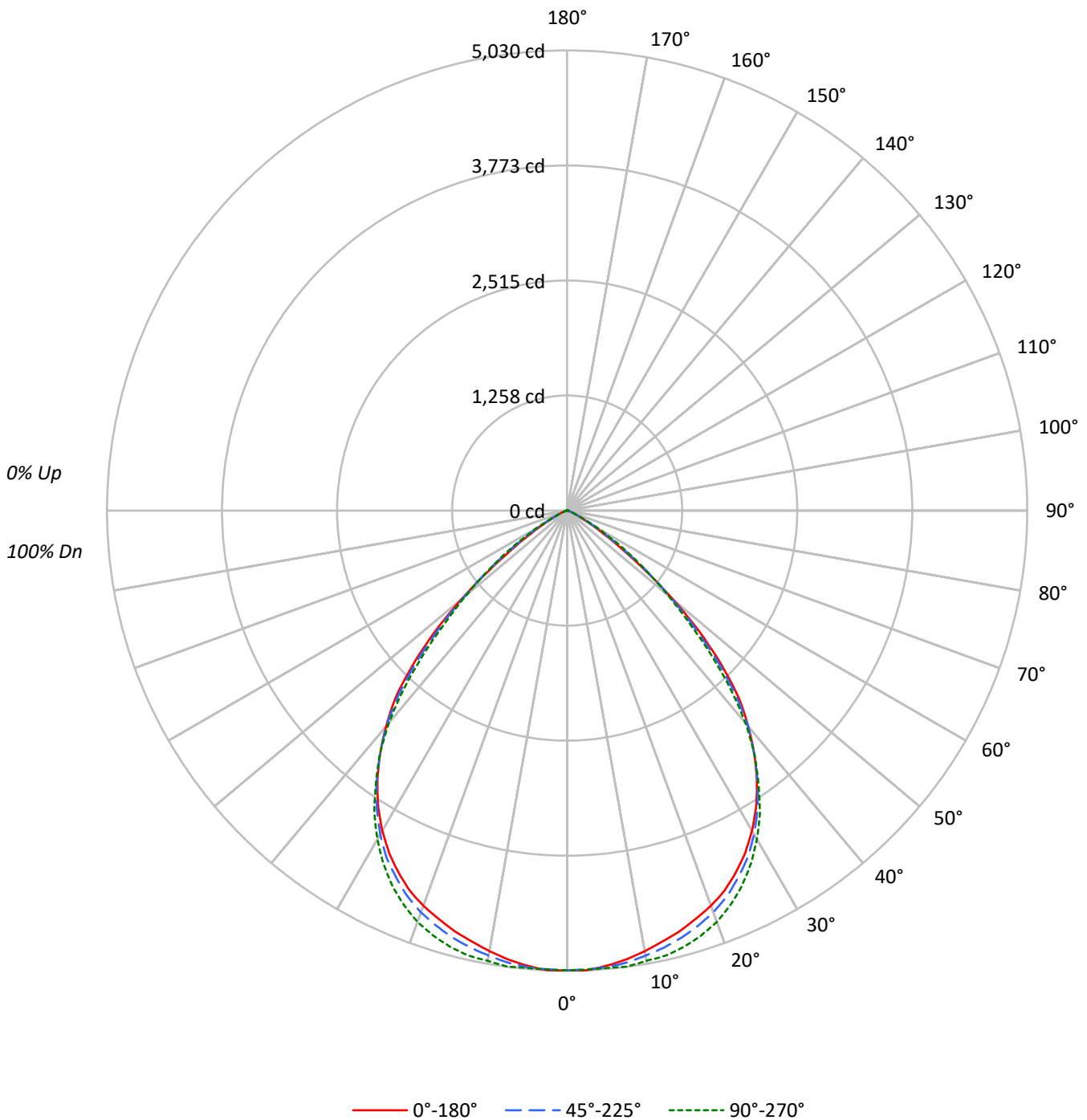
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	154983	154983	154983
5°	154591	155040	155365
10°	153128	154663	156469
15°	151914	154308	157625
20°	150852	153346	157038
25°	148491	150553	153891
30°	143894	145468	147693
35°	136088	136705	137209
40°	123958	123845	122179
45°	104221	101077	96712
50°	72386	70774	68884
55°	38724	42810	45342
60°	18742	21296	24021
65°	8209	8282	8632
70°	4418	4075	3985
75°	3896	3550	2526
80°	178	675	0
85°	354	354	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.1	5.4
10°-20°	1365.4	15.5
20°-30°	2037.3	23.1
30°-40°	2256.3	25.6
40°-50°	1759.6	20.0
50°-60°	737.5	8.4
60°-70°	147.7	1.7
70°-80°	23.5	0.3
80°-90°	3.7	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°	3878.7	44.0
0°-40°	6135.0	69.7
0°-60°	8632.1	98.0
0°-90°	8807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5026	5026	5026	5026	5026	
5°	4994	4998	5009	5022	5019	473
15°	4759	4780	4834	4905	4938	1342
25°	4364	4382	4425	4493	4523	2006
35°	3615	3609	3632	3649	3645	2247
45°	2390	2379	2318	2247	2218	1808
55°	720	748	796	828	843	702
65°	112	112	114	122	118	136
75°	33	30	30	23	21	27
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°	5026.0	5026.0	5026.0	5026.0	5026.0
2.5°	5029.8	5020.2	5018.3	5024.0	5020.2
5°	4994.2	4998.1	5008.7	5022.1	5019.2
7.5°	4948.1	4954.8	4983.7	5018.3	5026.9
10°	4890.4	4904.8	4939.4	4978.8	4997.1
12.5°	4823.0	4842.3	4892.3	4949.0	4982.7
15°	4758.6	4779.8	4833.6	4904.8	4937.5
17.5°	4677.8	4705.7	4758.6	4835.5	4869.2
20°	4597.0	4622.0	4673.0	4748.0	4785.5
22.5°	4497.0	4515.3	4563.4	4626.9	4665.3
25°	4364.3	4381.6	4424.9	4493.2	4523.0
27.5°	4216.2	4236.4	4275.8	4323.0	4349.9
30°	4041.2	4057.5	4085.4	4127.7	4147.9
32.5°	3844.0	3845.0	3872.9	3904.6	3922.9
35°	3615.1	3609.4	3631.5	3648.8	3644.9
37.5°	3362.2	3363.1	3361.2	3363.1	3367.0
40°	3079.4	3066.0	3076.6	3052.5	3035.2
42.5°	2779.4	2765.9	2724.6	2671.7	2642.8
45°	2389.9	2379.3	2317.8	2246.6	2217.7
47.5°	1961.9	1929.2	1879.2	1818.6	1790.7
50°	1508.9	1505.1	1475.3	1460.9	1435.9
52.5°	1079.1	1079.1	1115.6	1109.8	1108.9
55°	720.3	748.2	796.3	828.0	843.4
57.5°	469.3	495.3	535.7	569.3	584.7
60°	303.9	316.4	345.3	371.2	389.5
62.5°	188.5	199.1	214.5	230.8	237.5
65°	112.5	112.5	113.5	122.1	118.3
67.5°	76.0	78.9	75.0	75.0	84.6
70°	49.0	46.2	45.2	44.2	44.2
72.5°	31.7	26.9	28.9	30.8	26.9
75°	32.7	29.8	29.8	23.1	21.2
77.5°	11.5	12.5	8.7	6.7	5.8
80°	1.0	3.8	3.8	1.0	0.0
82.5°	11.5	10.6	8.7	13.5	8.7
85°	1.0	1.9	1.0	0.0	4.8
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)