

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: P247674

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80830 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8324.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

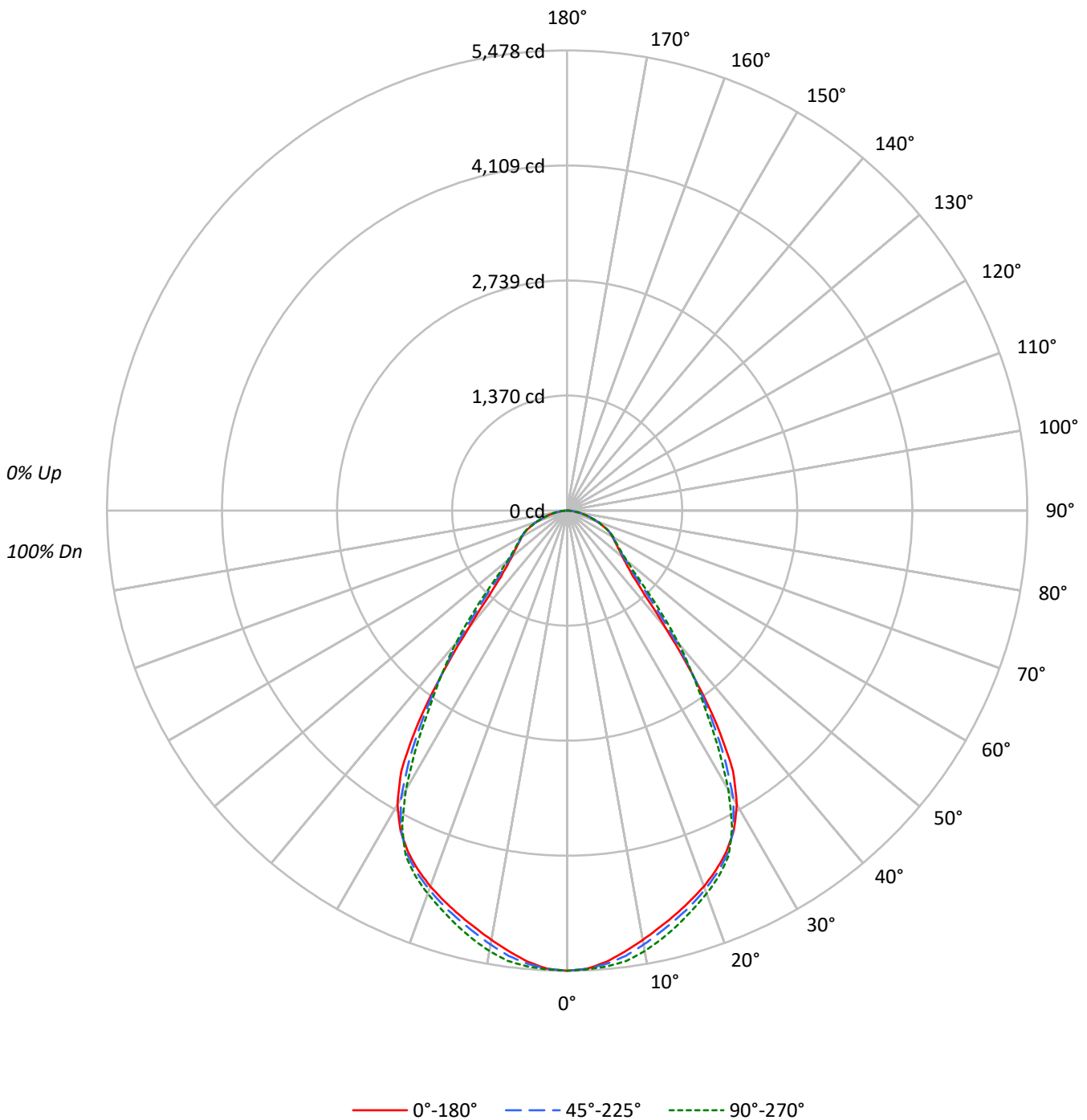
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	168915	168915	168915
5°	166852	167654	168607
10°	162487	164294	166702
15°	158941	160629	162931
20°	156214	157537	159272
25°	152544	153493	154507
30°	143819	140736	136594
35°	116750	111502	107229
40°	73009	79244	83076
45°	48650	53221	57747
50°	41477	42720	44197
55°	38778	39294	39864
60°	38434	38669	39026
65°	37467	37891	38175
70°	33990	34252	34513
75°	29678	30024	30131
80°	25270	25270	25962
85°	20415	20415	20415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.8	6.1
10°-20°	1420.2	17.1
20°-30°	2053.1	24.7
30°-40°	1837.4	22.1
40°-50°	994.3	11.9
50°-60°	662.7	8.0
60°-70°	507.5	6.1
70°-80°	269.0	3.2
80°-90°	68.0	0.8
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°	3985.1	47.9
0°-40°	5822.4	69.9
0°-60°	7479.5	89.9
0°-90°	8324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5478	5478	5478	5478	5478	
5°	5390	5393	5416	5437	5447	508
15°	4979	4988	5032	5081	5104	1405
25°	4483	4494	4511	4532	4541	2051
35°	3101	3070	2962	2876	2848	1877
45°	1116	1148	1220	1296	1324	918
55°	721	724	731	739	742	652
65°	514	516	519	523	523	503
75°	249	249	252	253	253	267
85°	58	58	58	59	58	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5459.5	5457.6	5458.5	5464.3	5467.2
5°	5390.3	5393.1	5416.2	5437.4	5447.0
7.5°	5293.1	5305.6	5345.1	5386.4	5407.6
10°	5189.3	5201.8	5247.0	5305.6	5323.9
12.5°	5082.5	5097.9	5138.3	5197.9	5220.0
15°	4978.7	4988.3	5031.6	5080.6	5103.7
17.5°	4871.9	4881.5	4921.0	4959.4	4977.7
20°	4760.4	4770.9	4800.7	4833.4	4853.6
22.5°	4632.5	4643.0	4668.0	4696.9	4715.2
25°	4483.4	4494.0	4511.3	4532.4	4541.1
27.5°	4294.9	4301.6	4285.3	4268.0	4252.6
30°	4039.1	4017.9	3952.5	3868.9	3836.2
32.5°	3675.6	3607.3	3481.3	3379.4	3341.9
35°	3101.4	3069.7	2962.0	2876.4	2848.5
37.5°	2432.1	2453.3	2445.6	2439.8	2445.6
40°	1813.7	1862.8	1968.6	2040.7	2063.8
42.5°	1373.3	1420.4	1539.7	1639.7	1674.3
45°	1115.6	1148.3	1220.4	1296.4	1324.2
47.5°	962.6	980.9	1017.5	1057.9	1071.3
50°	864.6	872.3	890.5	913.6	921.3
52.5°	786.7	790.5	801.1	813.6	815.5
55°	721.3	724.2	730.9	738.6	741.5
57.5°	666.4	669.3	671.3	676.1	678.0
60°	623.2	623.2	627.0	630.9	632.8
62.5°	576.1	576.1	579.9	583.7	583.7
65°	513.5	515.5	519.3	523.2	523.2
67.5°	445.3	446.2	449.1	453.0	452.0
70°	377.0	377.0	379.9	381.8	382.8
72.5°	311.6	310.6	315.4	316.4	313.5
75°	249.1	249.1	252.0	252.9	252.9
77.5°	194.3	193.3	193.3	194.3	195.2
80°	142.3	143.3	142.3	144.3	146.2
82.5°	99.1	98.1	98.1	98.1	97.1
85°	57.7	57.7	57.7	58.7	57.7
87.5°	23.1	23.1	22.1	22.1	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)