

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: P247154

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80840 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8379.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

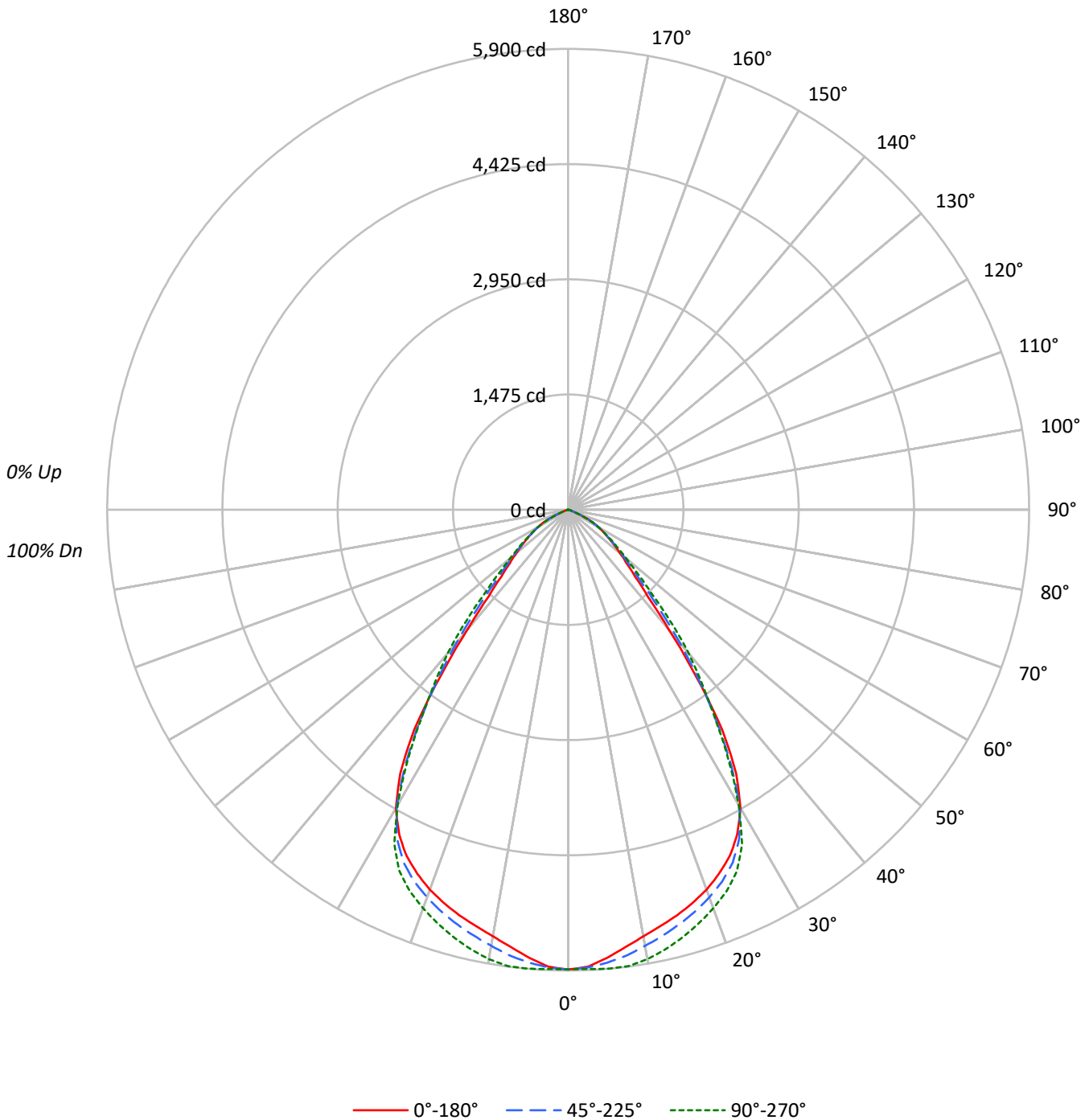
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	181521	181521	181521
5°	178187	180125	182614
10°	173622	177570	182953
15°	171656	175429	180885
20°	169862	173285	178240
25°	166517	169525	173785
30°	157001	156292	155338
35°	129142	124693	123981
40°	80866	89227	96465
45°	52771	58837	65209
50°	41607	43612	46471
55°	33918	34504	35574
60°	27759	27574	27450
65°	17979	17468	16527
70°	6185	5734	5283
75°	2133	2014	1894
80°	888	710	710
85°	354	354	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.4	6.6
10°-20°	1553.6	18.5
20°-30°	2272.2	27.1
30°-40°	2058.9	24.6
40°-50°	1094.8	13.1
50°-60°	584.3	7.0
60°-70°	238.3	2.8
70°-80°	24.0	0.3
80°-90°	1.4	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°	4377.3	52.2
0°-40°	6436.2	76.8
0°-60°	8115.3	96.9
0°-90°	8379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5887	5887	5887	5887	5887	
5°	5756	5771	5819	5872	5900	543
15°	5377	5408	5495	5608	5666	1517
25°	4894	4915	4982	5068	5108	2237
35°	3431	3383	3312	3288	3294	2062
45°	1210	1246	1349	1456	1495	990
55°	631	630	642	651	662	572
65°	246	245	239	226	226	246
75°	18	18	17	16	16	26
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5886.6	5886.6	5886.6	5886.6	5886.6
2.5°	5854.8	5853.8	5864.8	5877.7	5884.6
5°	5756.5	5771.4	5819.1	5871.7	5899.5
7.5°	5645.2	5673.0	5755.5	5845.9	5894.6
10°	5544.9	5580.6	5671.0	5789.3	5842.9
12.5°	5458.4	5493.2	5584.6	5705.8	5764.4
15°	5377.0	5407.7	5495.2	5608.4	5666.1
17.5°	5282.6	5312.4	5396.8	5504.1	5553.8
20°	5176.3	5201.1	5280.6	5380.9	5431.6
22.5°	5044.1	5070.9	5151.4	5243.8	5291.5
25°	4894.1	4915.0	4982.5	5068.0	5107.7
27.5°	4685.5	4704.3	4744.1	4789.8	4819.6
30°	4409.3	4404.3	4389.4	4375.5	4362.6
32.5°	4001.9	3954.2	3881.7	3836.0	3838.0
35°	3430.6	3382.9	3312.4	3287.6	3293.5
37.5°	2680.5	2716.3	2745.1	2792.8	2815.6
40°	2008.9	2070.5	2216.6	2343.7	2396.4
42.5°	1510.2	1570.8	1723.8	1857.9	1930.4
45°	1210.1	1245.9	1349.2	1456.5	1495.3
47.5°	1013.4	1029.3	1088.9	1157.5	1191.2
50°	867.3	877.3	909.1	946.8	968.7
52.5°	743.2	747.1	763.0	784.9	798.8
55°	630.9	629.9	641.8	650.8	661.7
57.5°	533.5	532.5	532.5	535.5	542.5
60°	450.1	447.1	447.1	443.1	445.1
62.5°	366.6	363.6	356.7	351.7	349.7
65°	246.4	245.4	239.4	225.5	226.5
67.5°	128.2	127.2	121.2	117.2	115.2
70°	68.6	66.6	63.6	60.6	58.6
72.5°	34.8	33.8	32.8	30.8	30.8
75°	17.9	17.9	16.9	15.9	15.9
77.5°	8.9	8.9	7.9	7.9	7.9
80°	5.0	5.0	4.0	4.0	4.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
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)