

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: P247538

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBSOGPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80840 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8303.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

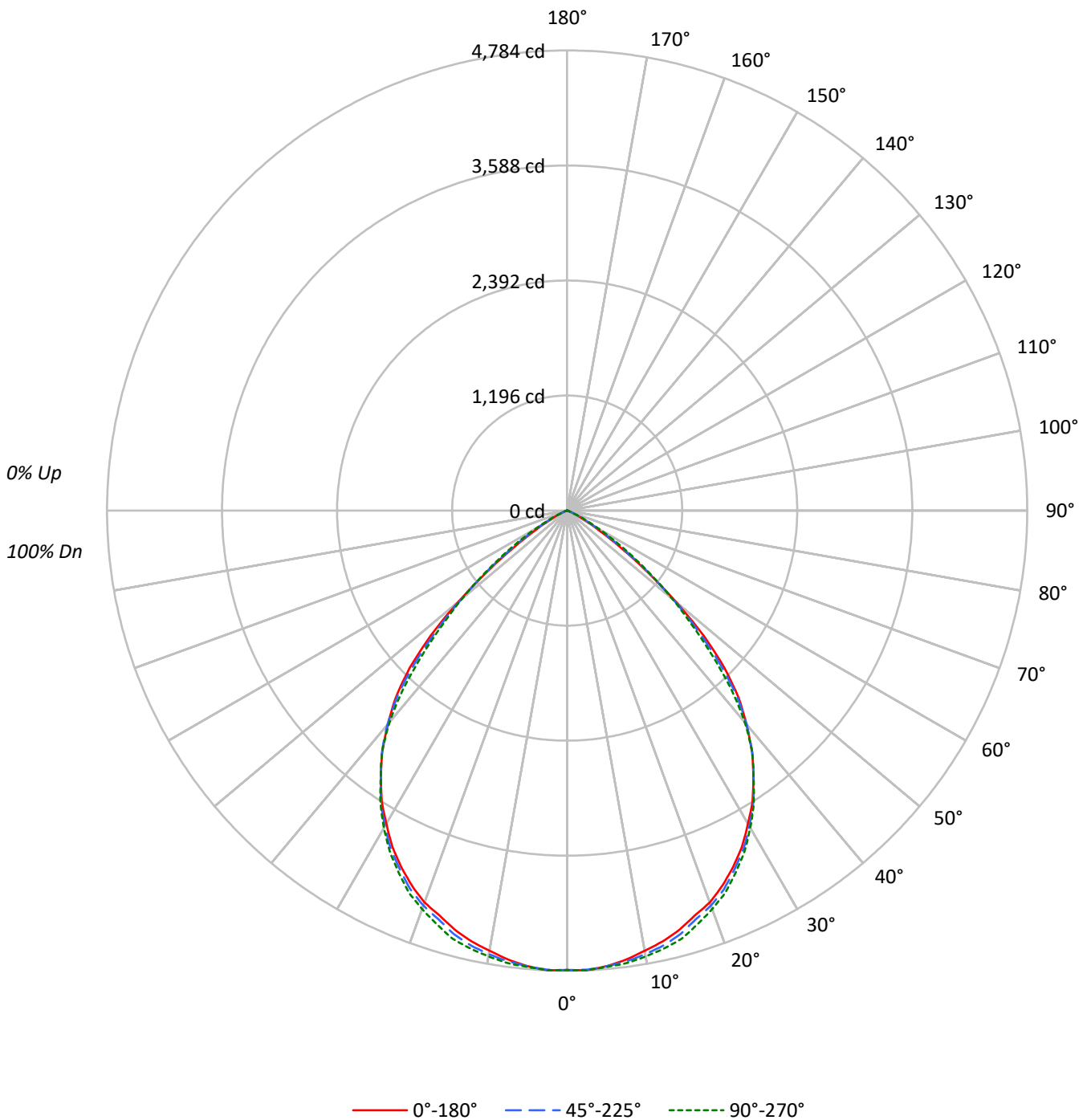
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	147290	147290	147290
5°	147116	147177	147391
10°	145519	146640	147386
15°	144019	145510	147097
20°	142268	143410	144650
25°	138992	140006	141156
30°	133888	134914	135622
35°	127042	127155	127188
40°	116732	116934	115734
45°	100986	97436	93101
50°	70822	69393	68486
55°	38456	41660	44385
60°	16972	20710	23466
65°	6523	8194	9785
70°	3318	2957	3850
75°	1060	2014	1775
80°	888	178	1065
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.8	5.4
10°-20°	1283.2	15.5
20°-30°	1892.3	22.8
30°-40°	2106.2	25.4
40°-50°	1695.1	20.4
50°-60°	720.8	8.7
60°-70°	135.1	1.6
70°-80°	16.4	0.2
80°-90°	2.0	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°	3627.3	43.7
0°-40°	5733.5	69.1
0°-60°	8149.4	98.2
0°-90°	8303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4776	4776	4776	4776	4776	
5°	4753	4754	4755	4763	4762	450
15°	4511	4536	4558	4593	4608	1271
25°	4085	4100	4115	4139	4149	1877
35°	3375	3376	3378	3379	3379	2102
45°	2316	2297	2234	2167	2135	1741
55°	715	731	775	806	826	681
65°	89	99	112	120	134	116
75°	9	11	17	16	15	14
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4776.5	4776.5	4776.5	4776.5	4776.5
2.5°	4784.5	4787.5	4777.5	4779.5	4782.5
5°	4752.7	4753.7	4754.7	4762.6	4761.6
7.5°	4708.0	4714.9	4726.9	4741.8	4745.7
10°	4647.4	4665.3	4683.2	4701.0	4707.0
12.5°	4587.8	4598.7	4630.5	4648.4	4663.3
15°	4511.3	4536.1	4558.0	4592.7	4607.7
17.5°	4413.9	4431.8	4452.7	4487.4	4508.3
20°	4335.4	4340.4	4370.2	4401.0	4408.0
22.5°	4219.2	4230.1	4260.9	4281.8	4299.7
25°	4085.1	4100.0	4114.9	4138.7	4148.7
27.5°	3938.1	3947.0	3967.9	3984.8	3993.7
30°	3760.2	3780.1	3789.0	3797.0	3808.9
32.5°	3587.4	3593.3	3601.3	3606.2	3612.2
35°	3374.8	3375.8	3377.8	3378.7	3378.7
37.5°	3157.2	3164.2	3162.2	3156.2	3159.2
40°	2899.9	2911.8	2904.9	2887.0	2875.1
42.5°	2640.6	2634.6	2610.8	2557.2	2532.3
45°	2315.7	2296.9	2234.3	2166.7	2134.9
47.5°	1926.3	1884.6	1831.9	1779.3	1758.4
50°	1476.3	1470.3	1446.5	1425.6	1427.6
52.5°	1058.0	1072.9	1077.9	1097.8	1107.7
55°	715.3	731.2	774.9	805.7	825.6
57.5°	435.1	465.9	512.6	563.3	589.1
60°	275.2	293.1	335.8	368.6	380.5
62.5°	171.9	172.9	193.7	219.6	230.5
65°	89.4	99.3	112.3	120.2	134.1
67.5°	55.6	55.6	54.6	66.6	74.5
70°	36.8	31.8	32.8	39.7	42.7
72.5°	12.9	21.9	19.9	19.9	13.9
75°	8.9	10.9	16.9	15.9	14.9
77.5°	11.9	10.9	7.9	7.0	13.9
80°	5.0	4.0	1.0	6.0	6.0
82.5°	5.0	2.0	6.0	7.9	5.0
85°	0.0	0.0	0.0	0.0	0.0
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)