

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: P247190

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247190
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 EC8B80827 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8591.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

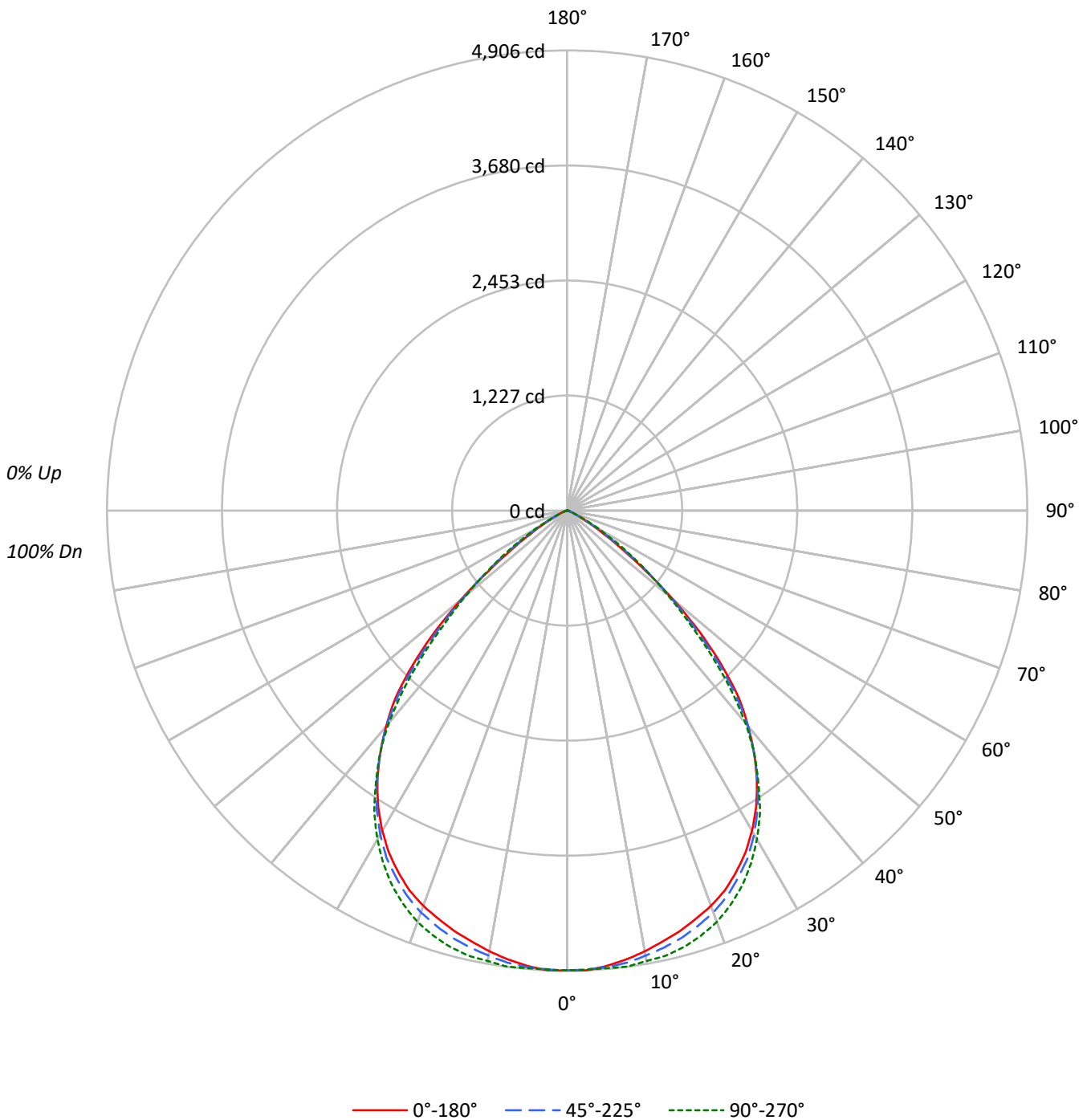
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	151181	151181	151181
5°	150799	151236	151554
10°	149371	150871	152634
15°	148188	150525	153759
20°	147154	149585	153188
25°	144851	146862	150118
30°	140365	141900	144072
35°	132752	133351	133844
40°	120919	120806	119184
45°	101666	98596	94340
50°	70611	69038	67191
55°	37778	41762	44230
60°	18286	20771	23429
65°	8012	8077	8420
70°	4310	3976	3895
75°	3801	3467	2454
80°	160	675	0
85°	318	318	1663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.4	5.4
10°-20°	1331.9	15.5
20°-30°	1987.3	23.1
30°-40°	2200.9	25.6
40°-50°	1716.4	20.0
50°-60°	719.4	8.4
60°-70°	144.1	1.7
70°-80°	22.9	0.3
80°-90°	3.6	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°	3783.6	44.0
0°-40°	5984.6	69.7
0°-60°	8420.4	98.0
0°-90°	8591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4903	4903	4903	4903	4903	
5°	4872	4876	4886	4899	4896	462
15°	4642	4662	4715	4784	4816	1310
25°	4257	4274	4316	4383	4412	1956
35°	3526	3521	3542	3559	3556	2192
45°	2331	2321	2261	2192	2163	1764
55°	703	730	777	808	823	685
65°	110	110	111	119	115	132
75°	32	29	29	22	21	26
85°	1	2	1	0	5	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4902.7	4902.7	4902.7	4902.7	4902.7
2.5°	4906.5	4897.1	4895.2	4900.8	4897.1
5°	4871.7	4875.5	4885.8	4899.0	4896.1
7.5°	4826.7	4833.3	4861.4	4895.2	4903.6
10°	4770.4	4784.5	4818.3	4856.7	4874.6
12.5°	4704.8	4723.5	4772.3	4827.7	4860.5
15°	4641.9	4662.5	4715.1	4784.5	4816.4
17.5°	4563.1	4590.3	4641.9	4717.0	4749.8
20°	4484.3	4508.7	4558.4	4631.6	4668.2
22.5°	4386.7	4404.6	4451.5	4513.4	4550.9
25°	4257.3	4274.2	4316.4	4383.0	4412.1
27.5°	4112.8	4132.5	4171.0	4216.9	4243.2
30°	3942.1	3958.0	3985.2	4026.5	4046.2
32.5°	3749.7	3750.7	3777.9	3808.8	3826.7
35°	3526.5	3520.8	3542.4	3559.3	3555.5
37.5°	3279.7	3280.7	3278.8	3280.7	3284.4
40°	3003.9	2990.8	3001.1	2977.6	2960.8
42.5°	2711.2	2698.1	2657.7	2606.1	2578.0
45°	2331.3	2321.0	2260.9	2191.5	2163.3
47.5°	1913.8	1881.9	1833.1	1774.0	1746.8
50°	1471.9	1468.2	1439.1	1425.0	1400.6
52.5°	1052.6	1052.6	1088.2	1082.6	1081.7
55°	702.7	729.9	776.8	807.7	822.7
57.5°	457.8	483.1	522.5	555.4	570.4
60°	296.5	308.6	336.8	362.1	379.9
62.5°	183.9	194.2	209.2	225.2	231.7
65°	109.8	109.8	110.7	119.1	115.4
67.5°	74.1	76.9	73.2	73.2	82.6
70°	47.8	45.0	44.1	43.2	43.2
72.5°	31.0	26.3	28.1	30.0	26.3
75°	31.9	29.1	29.1	22.5	20.6
77.5°	11.3	12.2	8.4	6.6	5.6
80°	0.9	3.8	3.8	0.9	0.0
82.5°	11.3	10.3	8.4	13.1	8.4
85°	0.9	1.9	0.9	0.0	4.7
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)