

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: P247138

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80930 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7764.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

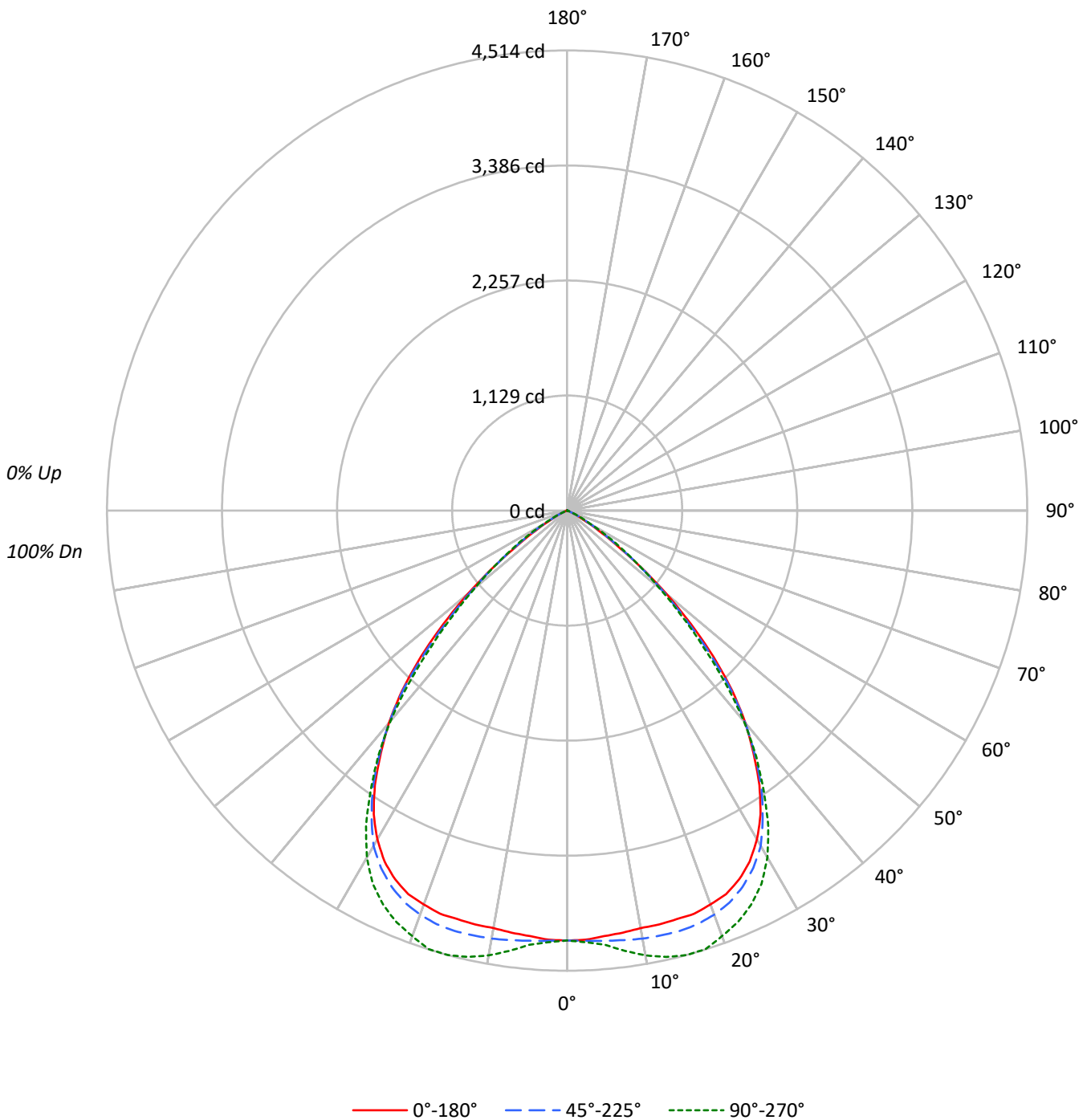
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82	82	82	82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73	73	73	73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66	66	66	66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53	53	53	53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	48	48	48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44	44	44	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	5.2
10°-20°	1215.0	15.6
20°-30°	1880.1	24.2
30°-40°	2059.3	26.5
40°-50°	1506.5	19.4
50°-60°	591.1	7.6
60°-70°	95.7	1.2
70°-80°	8.8	0.1
80°-90°	1.8	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°	3500.9	45.1
0°-40°	5560.1	71.6
0°-60°	7657.8	98.6
0°-90°	7764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4217	4217	4217	4217	4217	
5°	4190	4200	4236	4267	4276	399
15°	4150	4177	4269	4428	4514	1175
25°	3992	4004	4073	4196	4268	1830
35°	3288	3294	3322	3354	3362	2036
45°	2030	2026	1972	1912	1885	1546
55°	582	595	619	642	663	573
65°	69	68	74	81	87	84
75°	5	7	9	7	8	8
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°	4217.3	4217.3	4217.3	4217.3	4217.3
2.5°	4213.2	4215.7	4223.9	4232.2	4237.2
5°	4190.1	4200.1	4236.4	4266.9	4275.9
7.5°	4176.1	4192.5	4249.6	4326.4	4356.1
10°	4158.7	4182.7	4263.6	4372.6	4430.4
12.5°	4159.6	4182.7	4268.5	4410.6	4484.9
15°	4149.6	4176.8	4269.3	4428.0	4513.8
17.5°	4147.1	4160.4	4254.5	4415.5	4510.5
20°	4111.6	4129.8	4218.2	4361.0	4442.7
22.5°	4072.8	4081.1	4162.0	4302.4	4371.8
25°	3991.9	4004.3	4072.8	4195.9	4267.8
27.5°	3880.5	3882.9	3952.3	4066.2	4129.0
30°	3724.3	3736.7	3798.6	3882.9	3927.5
32.5°	3531.2	3529.5	3569.9	3643.4	3672.3
35°	3288.3	3294.1	3322.2	3353.6	3361.8
37.5°	3003.4	3010.9	3029.8	3040.6	3048.0
40°	2719.3	2719.3	2716.9	2705.3	2696.2
42.5°	2395.7	2384.9	2372.5	2321.4	2299.1
45°	2029.8	2026.5	1972.0	1911.8	1885.3
47.5°	1645.0	1626.8	1569.8	1521.1	1510.4
50°	1267.6	1248.6	1218.9	1194.9	1179.3
52.5°	903.4	889.4	901.7	901.7	900.2
55°	582.1	594.6	619.4	641.7	663.1
57.5°	369.1	385.6	423.6	452.5	459.9
60°	211.4	223.8	250.2	275.8	280.8
62.5°	133.0	133.7	151.1	166.0	175.1
65°	69.4	67.7	73.5	80.9	86.7
67.5°	28.9	28.9	34.6	33.9	42.9
70°	14.9	12.3	14.0	16.5	18.9
72.5°	10.8	8.3	11.5	14.9	6.6
75°	4.9	7.4	9.1	6.6	8.3
77.5°	6.6	6.6	4.9	8.3	1.7
80°	4.9	3.3	5.8	2.5	0.0
82.5°	0.8	1.7	0.8	0.8	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.5	4.1	3.3	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)