

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: P247626

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80830 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7478.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

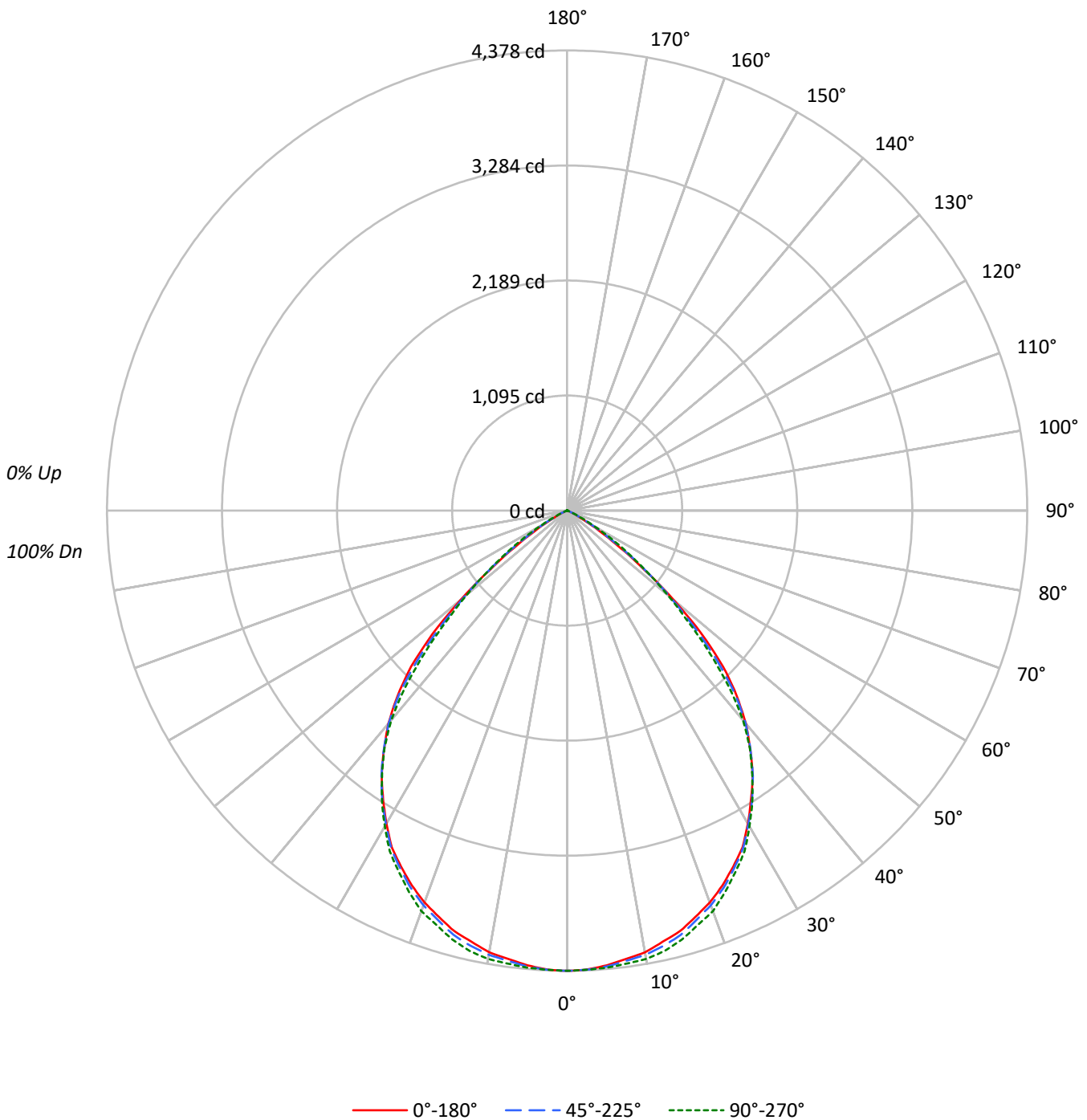
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	135017	135017	135017
5°	134403	134759	135087
10°	133637	134360	135625
15°	132290	133424	134867
20°	130175	131123	133046
25°	127151	127839	128982
30°	122448	122758	123545
35°	115809	115989	115519
40°	106415	106303	104829
45°	91509	87776	83751
50°	63617	61357	59649
55°	33192	36085	38208
60°	13463	15893	18446
65°	4283	5261	5611
70°	604	343	171
75°	0	0	0
80°	1545	337	515
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.5	5.5
10°-20°	1176.7	15.7
20°-30°	1728.6	23.1
30°-40°	1913.8	25.6
40°-50°	1525.2	20.4
50°-60°	624.9	8.4
60°-70°	92.0	1.2
70°-80°	1.3	0.0
80°-90°	1.9	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°	3318.8	44.4
0°-40°	5232.6	70.0
0°-60°	7382.8	98.7
0°-90°	7478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4378	4378	4378	4378	4378	
5°	4342	4350	4354	4360	4364	412
15°	4144	4147	4179	4219	4225	1166
25°	3737	3733	3757	3779	3791	1719
35°	3076	3072	3081	3077	3069	1912
45°	2098	2079	2013	1938	1920	1575
55°	617	639	671	710	711	594
65°	59	62	72	79	77	78
75°	0	0	0	0	0	3
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4378.5	4378.5	4378.5	4378.5	4378.5
2.5°	4370.8	4371.8	4371.8	4367.0	4372.7
5°	4342.0	4349.7	4353.5	4360.2	4364.1
7.5°	4301.6	4299.6	4319.8	4343.9	4346.8
10°	4267.9	4264.1	4291.0	4322.7	4331.4
12.5°	4201.6	4206.4	4241.0	4273.7	4291.0
15°	4143.9	4146.7	4179.4	4218.9	4224.6
17.5°	4054.4	4063.1	4085.2	4126.5	4134.2
20°	3966.9	3970.8	3995.8	4029.4	4054.4
22.5°	3860.2	3866.9	3886.1	3915.9	3928.4
25°	3737.1	3733.2	3757.3	3779.4	3790.9
27.5°	3612.0	3605.3	3623.6	3644.7	3655.3
30°	3438.9	3437.0	3447.6	3461.1	3469.7
32.5°	3257.2	3262.0	3272.6	3276.4	3279.3
35°	3076.4	3072.5	3081.2	3077.4	3068.7
37.5°	2861.9	2864.8	2864.8	2861.0	2857.1
40°	2643.6	2646.5	2640.8	2619.6	2604.2
42.5°	2387.8	2389.8	2359.9	2312.8	2281.1
45°	2098.4	2079.1	2012.8	1937.8	1920.5
47.5°	1733.9	1701.2	1632.0	1575.2	1555.0
50°	1326.1	1302.1	1279.0	1249.2	1243.4
52.5°	929.9	942.4	951.1	960.7	957.8
55°	617.4	638.6	671.2	709.7	710.7
57.5°	371.2	395.2	436.6	478.9	499.1
60°	218.3	227.9	257.7	289.5	299.1
62.5°	118.3	121.2	134.6	166.4	161.6
65°	58.7	61.5	72.1	78.9	76.9
67.5°	28.9	31.7	33.7	43.3	35.6
70°	6.7	1.9	3.8	4.8	1.9
72.5°	0.0	0.0	1.9	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.9	0.0	0.0	0.0	3.8
80°	8.7	5.8	1.9	1.9	2.9
82.5°	2.9	1.0	2.9	1.0	0.0
85°	0.0	0.0	0.0	3.8	0.0
87.5°	4.8	1.0	1.0	2.9	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)