

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: P247134

Luminaire Tested: **LD8B80D010 ER8B809727 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247134
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: LD8B80D010 ER8B809727 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6546.0 lumens
Efficiency: N/A
Efficacy: 88.0 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

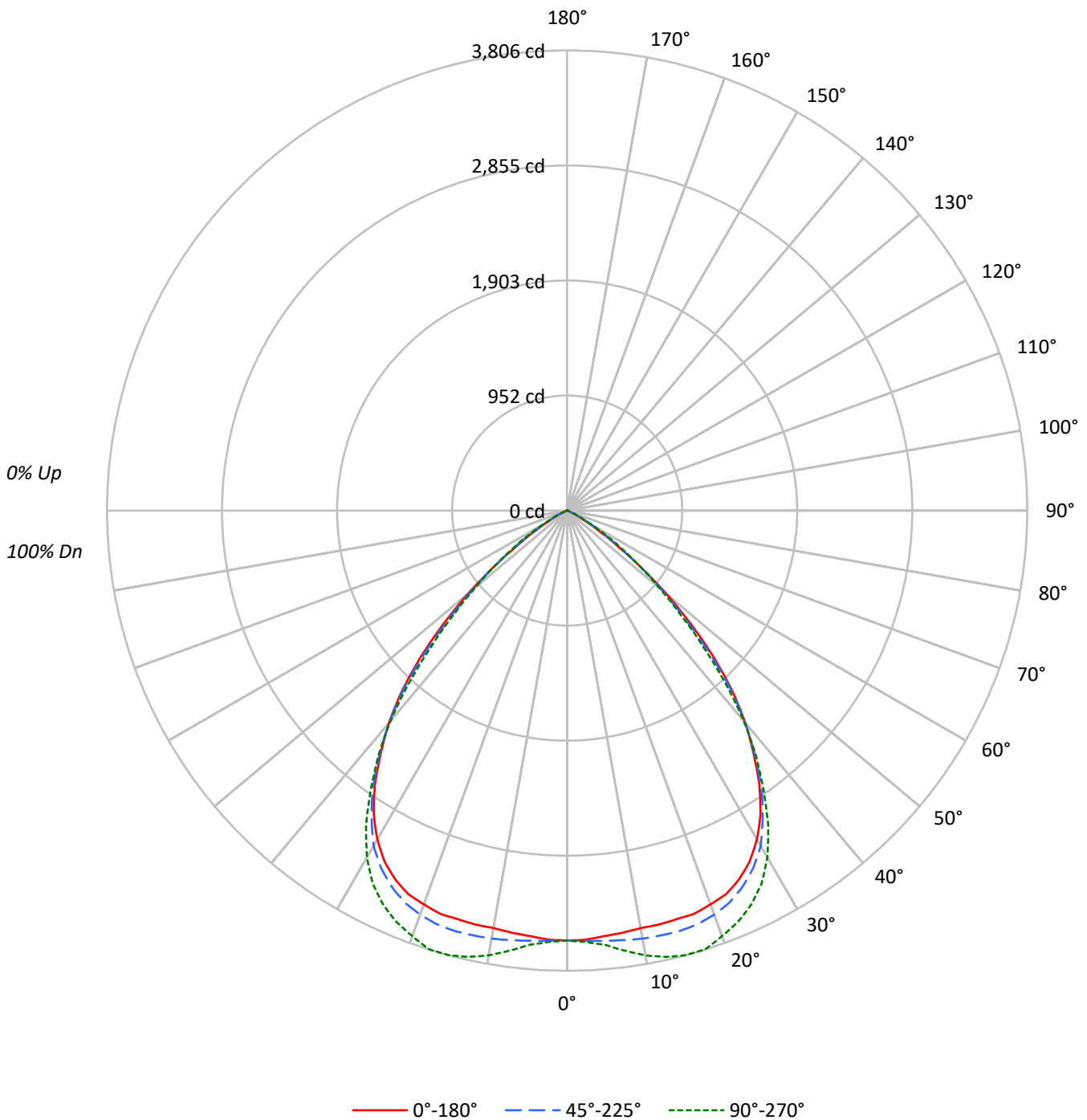
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	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°	342.1	5.2
10°-20°	1024.4	15.6
20°-30°	1585.1	24.2
30°-40°	1736.2	26.5
40°-50°	1270.2	19.4
50°-60°	498.4	7.6
60°-70°	80.7	1.2
70°-80°	7.4	0.1
80°-90°	1.5	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°	2951.6	45.1
0°-40°	4687.8	71.6
0°-60°	6456.4	98.6
0°-90°	6546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3556	3556	3556	3556	3556	
5°	3533	3541	3572	3598	3605	337
15°	3499	3522	3600	3733	3806	991
25°	3366	3376	3434	3538	3598	1543
35°	2772	2777	2801	2827	2834	1717
45°	1711	1709	1663	1612	1590	1303
55°	491	501	522	541	559	483
65°	58	57	62	68	73	71
75°	4	6	8	6	7	7
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°	3555.7	3555.7	3555.7	3555.7	3555.7
2.5°	3552.2	3554.3	3561.3	3568.2	3572.4
5°	3532.7	3541.1	3571.7	3597.5	3605.1
7.5°	3520.9	3534.8	3582.9	3647.6	3672.7
10°	3506.3	3526.5	3594.7	3686.6	3735.3
12.5°	3507.0	3526.5	3598.9	3718.6	3781.3
15°	3498.6	3521.6	3599.6	3733.3	3805.7
17.5°	3496.5	3507.7	3587.0	3722.8	3802.9
20°	3466.6	3481.9	3556.4	3676.9	3745.8
22.5°	3433.9	3440.8	3509.1	3627.4	3685.9
25°	3365.6	3376.1	3433.9	3537.6	3598.2
27.5°	3271.6	3273.7	3332.2	3428.3	3481.2
30°	3140.1	3150.5	3202.7	3273.7	3311.3
32.5°	2977.1	2975.7	3009.9	3071.8	3096.2
35°	2772.4	2777.3	2801.0	2827.4	2834.4
37.5°	2532.2	2538.5	2554.5	2563.6	2569.8
40°	2292.7	2292.7	2290.6	2280.9	2273.2
42.5°	2019.8	2010.8	2000.3	1957.1	1938.3
45°	1711.4	1708.6	1662.6	1611.8	1589.5
47.5°	1386.9	1371.6	1323.6	1282.5	1273.4
50°	1068.7	1052.7	1027.7	1007.5	994.2
52.5°	761.7	749.9	760.3	760.3	758.9
55°	490.9	501.3	522.2	541.0	559.1
57.5°	311.2	325.1	357.2	381.5	387.8
60°	178.2	188.7	211.0	232.5	236.7
62.5°	112.1	112.8	127.4	139.9	147.6
65°	58.5	57.1	62.0	68.2	73.1
67.5°	24.4	24.4	29.2	28.5	36.2
70°	12.5	10.4	11.8	13.9	16.0
72.5°	9.1	7.0	9.7	12.5	5.6
75°	4.2	6.3	7.7	5.6	7.0
77.5°	5.6	5.6	4.2	7.0	1.4
80°	4.2	2.8	4.9	2.1	0.0
82.5°	0.7	1.4	0.7	0.7	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.1	3.5	2.8	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)