

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: P247136

Luminaire Tested: **LD8B100D010 ER8B100927 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247136
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: LD8B100D010 ER8B100927 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: 9570.3 lumens
Efficiency: N/A
Efficacy: 90.0 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

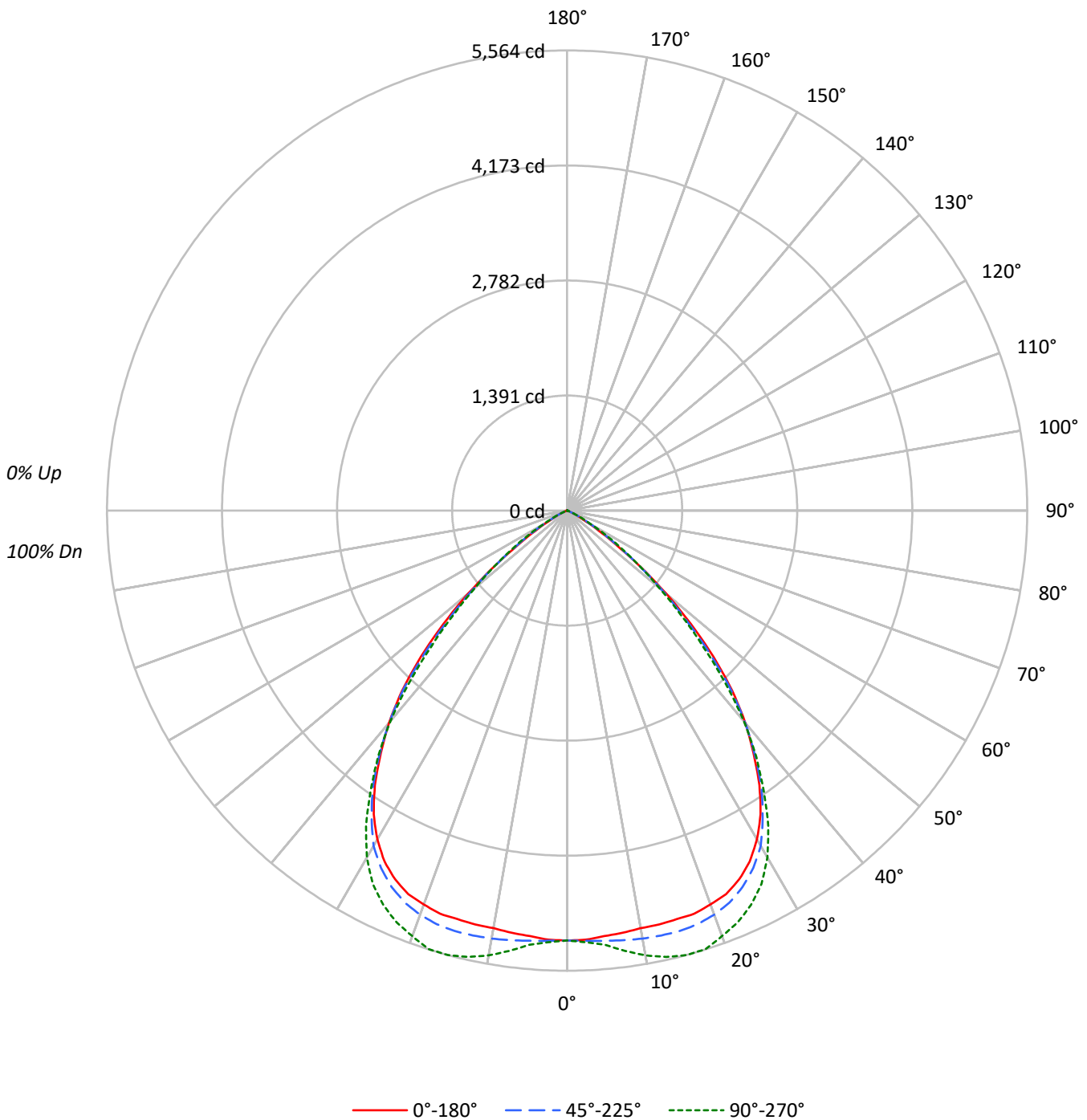
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	500.2	5.2
10°-20°	1497.7	15.6
20°-30°	2317.5	24.2
30°-40°	2538.3	26.5
40°-50°	1857.0	19.4
50°-60°	728.6	7.6
60°-70°	118.0	1.2
70°-80°	10.8	0.1
80°-90°	2.2	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°	4315.4	45.1
0°-40°	6853.7	71.6
0°-60°	9439.4	98.6
0°-90°	9570.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9570.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5198	5198	5198	5198	5198	
5°	5165	5177	5222	5260	5271	492
15°	5115	5149	5263	5458	5564	1449
25°	4921	4936	5020	5172	5261	2256
35°	4053	4060	4095	4134	4144	2510
45°	2502	2498	2431	2356	2324	1905
55°	718	733	763	791	817	706
65°	86	84	91	100	107	104
75°	6	9	11	8	10	10
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5198.5	5198.5	5198.5	5198.5	5198.5
2.5°	5193.4	5196.5	5206.6	5216.8	5222.9
5°	5165.0	5177.1	5221.9	5259.6	5270.8
7.5°	5147.7	5168.0	5238.2	5332.8	5369.5
10°	5126.3	5155.8	5255.6	5389.9	5461.2
12.5°	5127.3	5155.8	5261.6	5436.7	5528.4
15°	5115.0	5148.7	5262.6	5458.0	5563.9
17.5°	5112.0	5128.3	5244.3	5442.9	5559.9
20°	5068.2	5090.6	5199.5	5375.6	5476.4
22.5°	5020.4	5030.6	5130.3	5303.4	5388.9
25°	4920.6	4935.9	5020.4	5172.1	5260.6
27.5°	4783.2	4786.3	4871.8	5012.2	5089.6
30°	4590.8	4606.1	4682.5	4786.3	4841.2
32.5°	4352.6	4350.6	4400.4	4491.1	4526.7
35°	4053.4	4060.5	4095.1	4133.8	4143.9
37.5°	3702.2	3711.4	3734.8	3747.9	3757.2
40°	3352.0	3352.0	3349.0	3334.7	3323.5
42.5°	2953.0	2939.7	2924.4	2861.3	2833.9
45°	2502.0	2498.0	2430.8	2356.5	2323.9
47.5°	2027.7	2005.3	1935.1	1875.0	1861.8
50°	1562.5	1539.1	1502.4	1473.0	1453.6
52.5°	1113.6	1096.3	1111.6	1111.6	1109.6
55°	717.6	732.9	763.4	790.9	817.4
57.5°	455.1	475.4	522.2	557.8	567.0
60°	260.6	275.8	308.5	340.0	346.0
62.5°	163.9	164.9	186.3	204.6	215.8
65°	85.5	83.5	90.6	99.8	106.9
67.5°	35.7	35.7	42.8	41.7	53.0
70°	18.3	15.3	17.3	20.4	23.4
72.5°	13.3	10.1	14.3	18.3	8.1
75°	6.1	9.1	11.2	8.1	10.1
77.5°	8.1	8.1	6.1	10.1	2.0
80°	6.1	4.0	7.1	3.0	0.0
82.5°	1.0	2.0	1.0	1.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	3.0	5.1	4.0	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)