

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: P247137

Luminaire Tested: **LD8B120D010 ER8B1209727 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247137
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: LD8B120D010 ER8B1209727 8LBSOLI
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: 9644.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

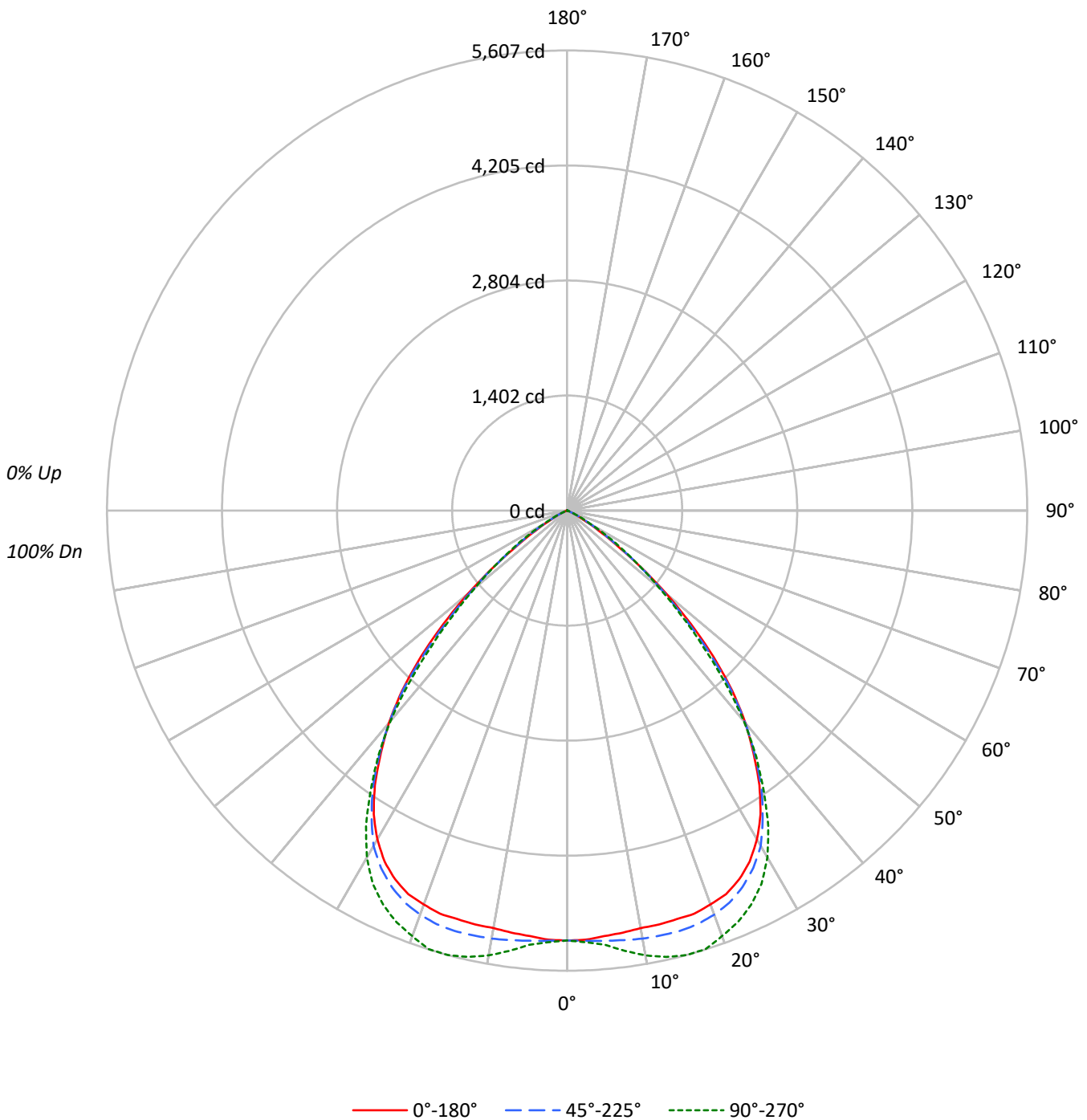
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	504.1	5.2
10°-20°	1509.2	15.6
20°-30°	2335.3	24.2
30°-40°	2557.9	26.5
40°-50°	1871.3	19.4
50°-60°	734.2	7.6
60°-70°	118.8	1.2
70°-80°	11.0	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°	4348.6	45.1
0°-40°	6906.4	71.6
0°-60°	9512.0	98.6
0°-90°	9644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5238	5238	5238	5238	5238	
5°	5205	5217	5262	5300	5311	496
15°	5154	5188	5303	5500	5607	1460
25°	4958	4974	5059	5212	5301	2274
35°	4084	4092	4127	4166	4176	2529
45°	2521	2517	2450	2375	2342	1920
55°	723	738	769	797	824	711
65°	86	84	91	100	108	105
75°	6	9	11	8	10	11
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°	5238.5	5238.5	5238.5	5238.5	5238.5
2.5°	5233.4	5236.5	5246.7	5257.0	5263.1
5°	5204.7	5217.0	5262.1	5300.1	5311.3
7.5°	5187.2	5207.7	5278.5	5373.9	5410.8
10°	5165.7	5195.4	5296.0	5431.4	5503.2
12.5°	5166.7	5195.4	5302.1	5478.5	5570.9
15°	5154.4	5188.3	5303.1	5500.1	5606.8
17.5°	5151.3	5167.7	5284.7	5484.7	5602.7
20°	5107.2	5129.8	5239.5	5417.0	5518.5
22.5°	5059.0	5069.3	5169.8	5344.2	5430.3
25°	4958.5	4973.9	5059.0	5211.8	5301.1
27.5°	4820.0	4823.1	4909.3	5050.8	5128.8
30°	4626.1	4641.5	4718.5	4823.1	4878.5
32.5°	4386.1	4384.1	4434.3	4525.6	4561.5
35°	4084.5	4091.7	4126.6	4165.6	4175.8
37.5°	3730.7	3739.9	3763.5	3776.8	3786.1
40°	3377.8	3377.8	3374.7	3360.4	3349.1
42.5°	2975.7	2962.4	2947.0	2883.4	2855.7
45°	2521.3	2517.2	2449.5	2374.6	2341.8
47.5°	2043.3	2020.7	1950.0	1889.4	1876.1
50°	1574.5	1550.9	1514.0	1484.3	1464.8
52.5°	1122.2	1104.7	1120.1	1120.1	1118.1
55°	723.2	738.5	769.3	797.0	823.7
57.5°	458.5	479.0	526.2	562.1	571.3
60°	262.6	278.0	310.8	342.6	348.8
62.5°	165.1	166.2	187.7	206.2	217.5
65°	86.2	84.1	91.3	100.5	107.7
67.5°	35.9	35.9	43.1	42.1	53.3
70°	18.5	15.4	17.4	20.5	23.6
72.5°	13.3	10.3	14.4	18.5	8.2
75°	6.2	9.2	11.3	8.2	10.3
77.5°	8.2	8.2	6.2	10.3	2.1
80°	6.2	4.1	7.2	3.1	0.0
82.5°	1.0	2.1	1.0	1.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	3.1	5.1	4.1	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)