

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: P247110

Luminaire Tested: **LD8B80D010 ER8B80850 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247110
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 ER8B80850 8LBSOLI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9523.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

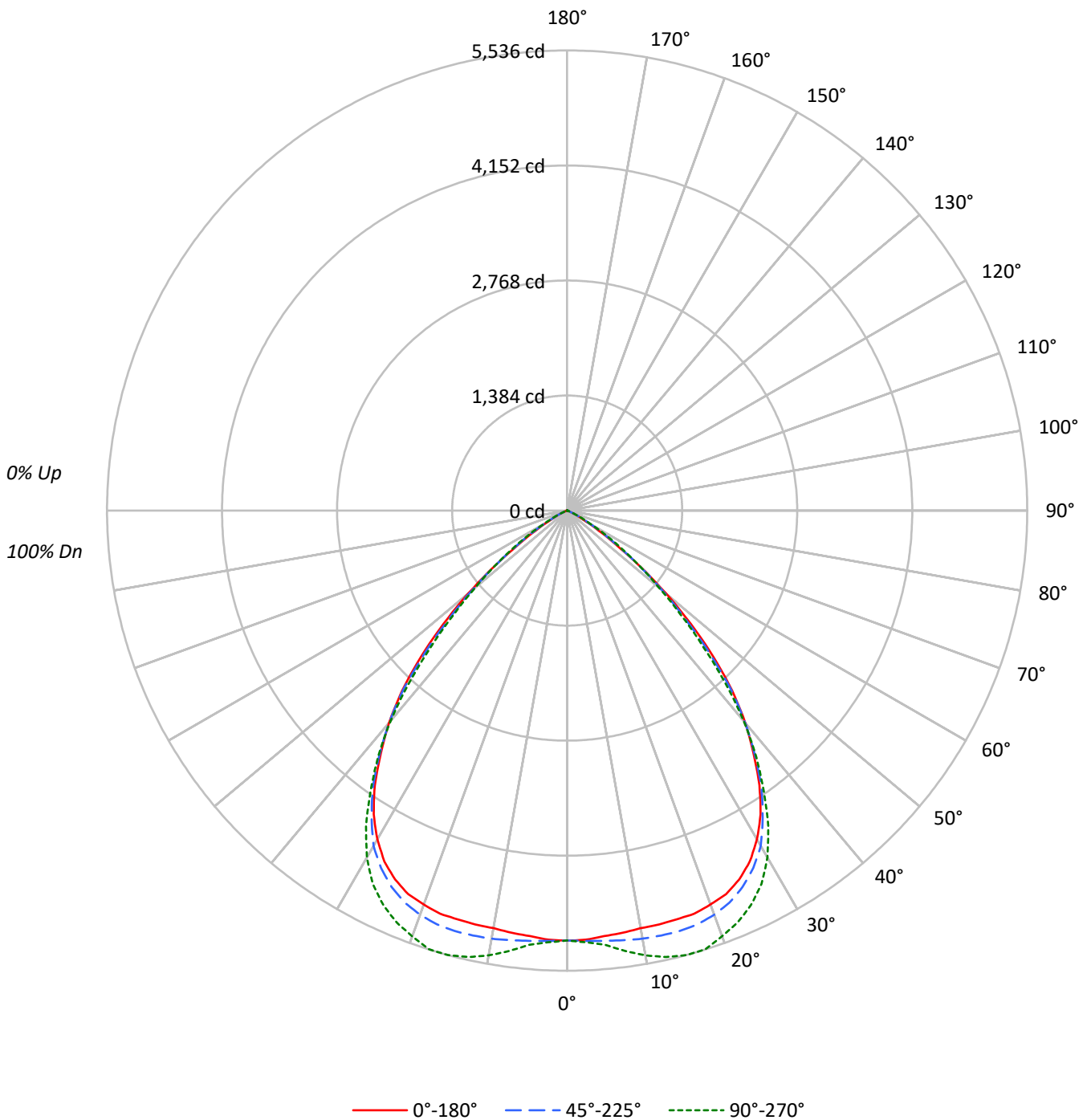
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	159510	159510	159510
5°	159086	160841	162345
10°	159719	163746	170153
15°	162484	167174	176745
20°	165491	169780	178821
25°	166592	169967	178103
30°	162655	165902	171528
35°	151830	153393	155222
40°	134263	134142	133124
45°	108574	105482	100842
50°	74588	71719	69388
55°	38391	40843	43724
60°	15992	18927	21240
65°	6209	6574	7763
70°	1641	1551	2101
75°	727	1322	1203
80°	1083	1261	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.7	5.2
10°-20°	1490.3	15.6
20°-30°	2306.0	24.2
30°-40°	2525.8	26.5
40°-50°	1847.8	19.4
50°-60°	725.0	7.6
60°-70°	117.4	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°	4294.0	45.1
0°-40°	6819.8	71.6
0°-60°	9392.7	98.6
0°-90°	9523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5173	5173	5173	5173	5173	
5°	5139	5152	5196	5234	5245	490
15°	5090	5123	5237	5431	5536	1441
25°	4896	4912	4996	5146	5235	2245
35°	4033	4040	4075	4113	4123	2497
45°	2490	2486	2419	2345	2312	1896
55°	714	729	760	787	813	703
65°	85	83	90	99	106	103
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°	5172.8	5172.8	5172.8	5172.8	5172.8
2.5°	5167.7	5170.8	5180.9	5191.0	5197.1
5°	5139.4	5151.5	5196.1	5233.6	5244.7
7.5°	5122.1	5142.4	5212.3	5306.5	5343.0
10°	5100.9	5130.2	5229.5	5363.2	5434.1
12.5°	5101.9	5130.2	5235.6	5409.8	5501.0
15°	5089.7	5123.2	5236.6	5431.1	5536.4
17.5°	5086.7	5102.9	5218.4	5415.9	5532.4
20°	5043.1	5065.4	5173.8	5349.0	5449.3
22.5°	4995.5	5005.7	5104.9	5277.1	5362.2
25°	4896.3	4911.5	4995.5	5146.5	5234.6
27.5°	4759.5	4762.6	4847.7	4987.4	5064.4
30°	4568.1	4583.3	4659.3	4762.6	4817.3
32.5°	4331.1	4329.1	4378.7	4468.8	4504.3
35°	4033.3	4040.4	4074.8	4113.3	4123.4
37.5°	3683.9	3693.0	3716.3	3729.4	3738.5
40°	3335.4	3335.4	3332.4	3318.2	3307.1
42.5°	2938.4	2925.2	2910.0	2847.2	2819.9
45°	2489.7	2485.6	2418.8	2344.8	2312.4
47.5°	2017.7	1995.4	1925.5	1865.7	1852.6
50°	1554.8	1531.5	1495.0	1465.6	1446.4
52.5°	1108.1	1090.9	1106.1	1106.1	1104.0
55°	714.1	729.3	759.7	787.0	813.3
57.5°	452.8	473.0	519.6	555.1	564.2
60°	259.3	274.5	306.9	338.3	344.4
62.5°	163.1	164.1	185.4	203.6	214.7
65°	85.1	83.1	90.1	99.3	106.4
67.5°	35.5	35.5	42.5	41.5	52.7
70°	18.2	15.2	17.2	20.3	23.3
72.5°	13.2	10.1	14.2	18.2	8.1
75°	6.1	9.1	11.1	8.1	10.1
77.5°	8.1	8.1	6.1	10.1	2.0
80°	6.1	4.1	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	4.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)