

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: P247123

Luminaire Tested: **LD8B90D010 ER8B90935 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247123  
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: LD8B90D010 ER8B90935 8LBSOLI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9031.0 lumens  
Efficiency: N/A  
Efficacy: 104.9 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

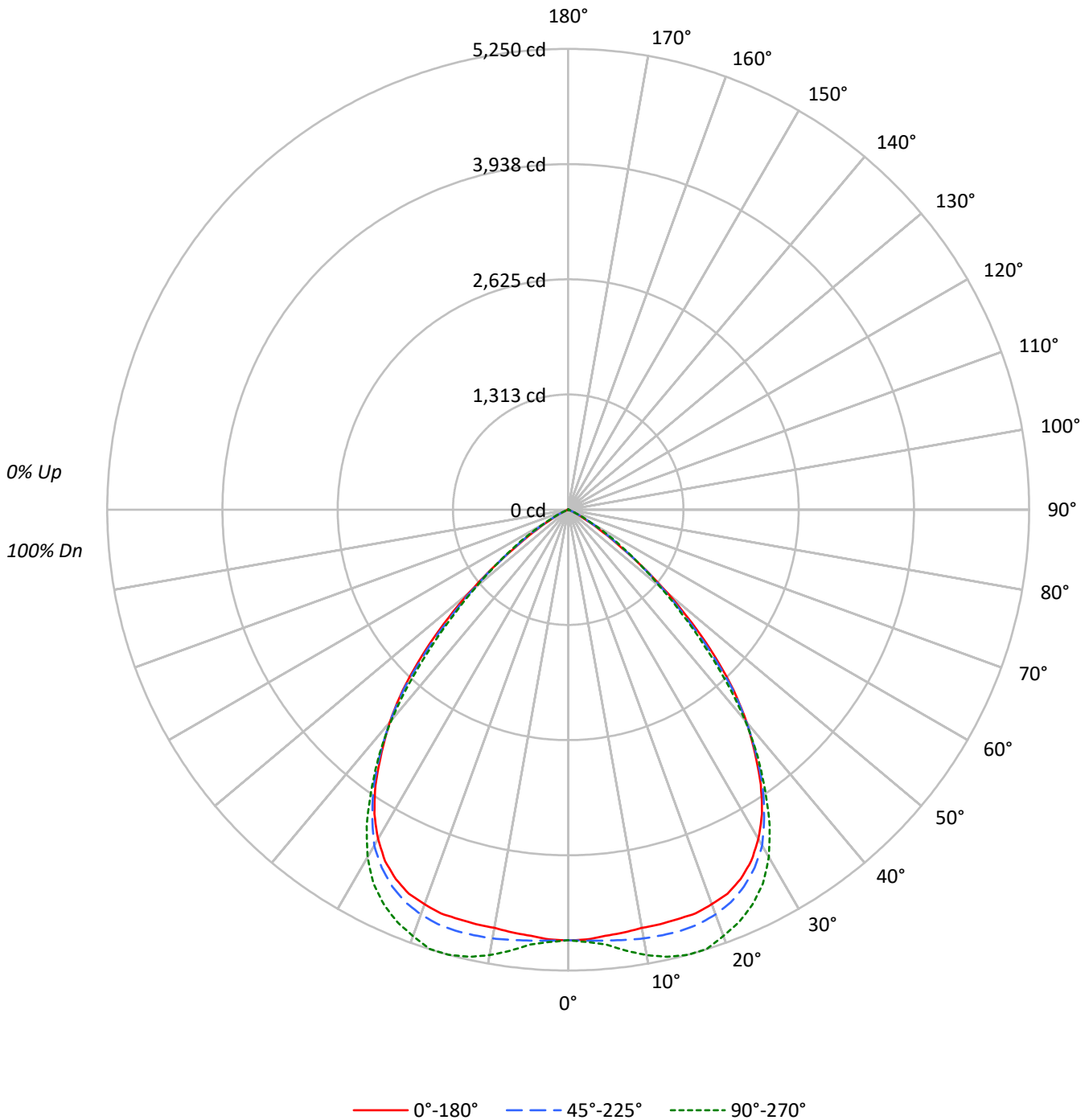
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	151268	151268	151268
5°	150864	152529	153956
10°	151466	155286	161363
15°	154091	158538	167614
20°	156943	161008	169583
25°	157984	161186	168899
30°	154252	157328	162666
35°	143985	145468	147204
40°	127327	127211	126244
45°	102961	100031	95630
50°	70731	68016	65804
55°	36407	38730	41466
60°	15165	17947	20142
65°	5888	6239	7362
70°	1560	1470	1993
75°	691	1263	1144
80°	1030	1190	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.0	5.2
10°-20°	1413.3	15.6
20°-30°	2186.9	24.2
30°-40°	2395.3	26.5
40°-50°	1752.4	19.4
50°-60°	687.6	7.6
60°-70°	111.3	1.2
70°-80°	10.3	0.1
80°-90°	2.1	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°	4072.2	45.1
0°-40°	6467.5	71.6
0°-60°	8907.4	98.6
0°-90°	9031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9031.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4906	4906	4906	4906	4906	
5°	4874	4885	4928	4963	4974	464
15°	4827	4858	4966	5150	5250	1367
25°	4643	4658	4737	4881	4964	2129
35°	3825	3832	3864	3901	3910	2368
45°	2361	2357	2294	2224	2193	1798
55°	677	692	720	746	771	666
65°	81	79	86	94	101	98
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°	4905.5	4905.5	4905.5	4905.5	4905.5
2.5°	4900.7	4903.6	4913.2	4922.8	4928.6
5°	4873.8	4885.4	4927.6	4963.2	4973.7
7.5°	4857.5	4876.7	4943.0	5032.3	5066.9
10°	4837.3	4865.2	4959.3	5086.1	5153.4
12.5°	4838.3	4865.2	4965.1	5130.3	5216.8
15°	4826.8	4858.5	4966.1	5150.5	5250.4
17.5°	4823.9	4839.3	4948.8	5136.1	5246.5
20°	4782.6	4803.7	4906.5	5072.7	5167.8
22.5°	4737.4	4747.1	4841.2	5004.5	5085.2
25°	4643.3	4657.7	4737.4	4880.6	4964.1
27.5°	4513.6	4516.5	4597.2	4729.8	4802.8
30°	4332.1	4346.5	4418.5	4516.5	4568.4
32.5°	4107.3	4105.4	4152.5	4238.0	4271.6
35°	3824.9	3831.6	3864.3	3900.8	3910.4
37.5°	3493.5	3502.2	3524.3	3536.8	3545.4
40°	3163.1	3163.1	3160.2	3146.8	3136.2
42.5°	2786.6	2774.1	2759.7	2700.1	2674.2
45°	2361.0	2357.2	2293.8	2223.7	2192.9
47.5°	1913.4	1892.3	1826.0	1769.3	1756.9
50°	1474.4	1452.4	1417.8	1389.9	1371.7
52.5°	1050.8	1034.5	1048.9	1048.9	1047.0
55°	677.2	691.6	720.4	746.3	771.3
57.5°	429.4	448.6	492.8	526.4	535.0
60°	245.9	260.3	291.0	320.8	326.6
62.5°	154.6	155.6	175.8	193.1	203.6
65°	80.7	78.8	85.5	94.1	100.9
67.5°	33.6	33.6	40.3	39.4	49.9
70°	17.3	14.4	16.3	19.2	22.1
72.5°	12.5	9.6	13.4	17.3	7.7
75°	5.8	8.6	10.6	7.7	9.6
77.5°	7.7	7.7	5.8	9.6	1.9
80°	5.8	3.8	6.7	2.9	0.0
82.5°	1.0	1.9	1.0	1.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	2.9	4.8	3.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)