

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: P247124

Luminaire Tested: **LD8B100D010 ER8B100935 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247124
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 ER8B100935 8LBS0LI
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: 10419.0 lumens
Efficiency: N/A
Efficacy: 98.0 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

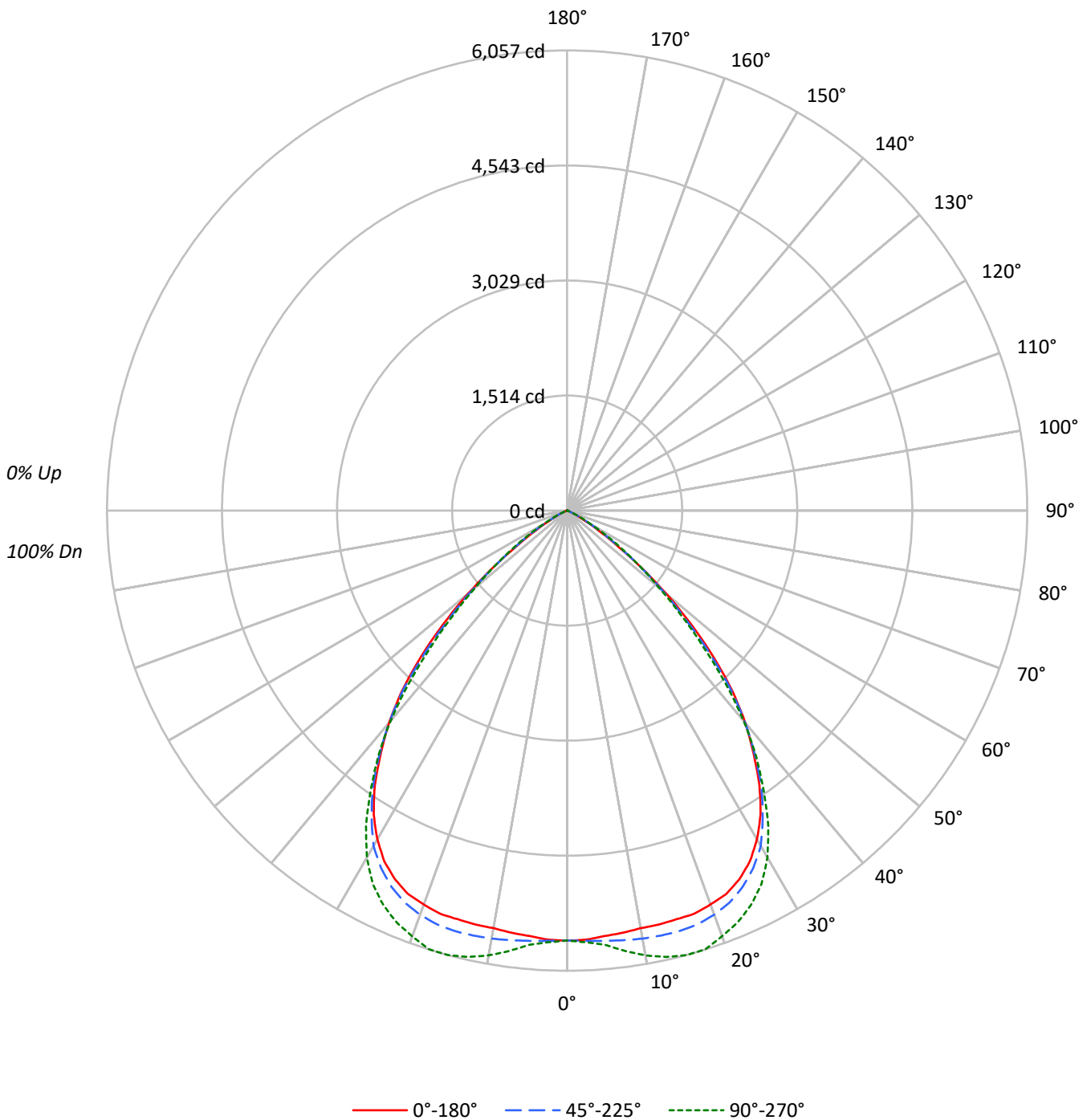
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247124

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBSOLI

Luminous Intensity Polar Plot





TEST NUMBER: P247124

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBSOLI

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	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					100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	174518	174518	174518
5°	174052	175974	177621
10°	174746	179152	186162
15°	177773	182903	193374
20°	181062	185754	195645
25°	182267	185962	194859
30°	177959	181509	187665
35°	166116	167825	169828
40°	146895	146762	145647
45°	118787	115403	110331
50°	81607	78469	75917
55°	42004	44681	47842
60°	17497	20710	23238
65°	6793	7194	8493
70°	1794	1695	2299
75°	786	1454	1322
80°	1172	1385	0
85°	0	0	0



TEST NUMBER: P247124

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBSOLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	5.2
10°-20°	1630.5	15.6
20°-30°	2523.0	24.2
30°-40°	2763.4	26.5
40°-50°	2021.7	19.4
50°-60°	793.2	7.6
60°-70°	128.4	1.2
70°-80°	11.8	0.1
80°-90°	2.4	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°	4698.0	45.1
0°-40°	7461.4	71.6
0°-60°	10276.4	98.6
0°-90°	10419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5660	5660	5660	5660	5660	
5°	5623	5636	5685	5726	5738	536
15°	5569	5605	5729	5942	6057	1577
25°	5357	5374	5466	5631	5727	2456
35°	4413	4420	4458	4500	4511	2732
45°	2724	2720	2646	2565	2530	2074
55°	781	798	831	861	890	769
65°	93	91	99	109	116	113
75°	7	10	12	9	11	11
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P247124

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBSOLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5659.5	5659.5	5659.5	5659.5	5659.5
2.5°	5653.9	5657.3	5668.4	5679.4	5686.1
5°	5622.9	5636.2	5685.0	5726.0	5738.2
7.5°	5604.1	5626.2	5702.7	5805.8	5845.7
10°	5580.8	5612.9	5721.5	5867.8	5945.4
12.5°	5581.9	5612.9	5728.2	5918.8	6018.5
15°	5568.6	5605.2	5729.3	5942.1	6057.3
17.5°	5565.3	5583.0	5709.4	5925.5	6052.9
20°	5517.6	5542.0	5660.6	5852.3	5962.0
22.5°	5465.6	5476.6	5585.2	5773.6	5866.7
25°	5357.0	5373.6	5465.6	5630.7	5727.1
27.5°	5207.3	5210.7	5303.8	5456.7	5540.9
30°	4997.9	5014.5	5097.6	5210.7	5270.5
32.5°	4738.6	4736.4	4790.7	4889.3	4928.1
35°	4412.8	4420.5	4458.2	4500.3	4511.4
37.5°	4030.5	4040.4	4065.9	4080.3	4090.3
40°	3649.2	3649.2	3645.9	3630.4	3618.2
42.5°	3214.8	3200.4	3183.8	3115.1	3085.2
45°	2723.9	2719.5	2646.3	2565.4	2530.0
47.5°	2207.5	2183.1	2106.7	2041.3	2026.9
50°	1701.1	1675.6	1635.7	1603.5	1582.5
52.5°	1212.4	1193.5	1210.1	1210.1	1207.9
55°	781.3	797.9	831.1	861.1	889.9
57.5°	495.4	517.5	568.5	607.3	617.3
60°	283.7	300.3	335.8	370.1	376.8
62.5°	178.4	179.5	202.8	222.7	234.9
65°	93.1	90.9	98.6	108.6	116.4
67.5°	38.8	38.8	46.5	45.4	57.6
70°	19.9	16.6	18.8	22.2	25.5
72.5°	14.4	11.1	15.5	19.9	8.9
75°	6.6	10.0	12.2	8.9	11.1
77.5°	8.9	8.9	6.6	11.1	2.2
80°	6.6	4.4	7.8	3.3	0.0
82.5°	1.1	2.2	1.1	1.1	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.3	5.5	4.4	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)