

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: P247133

Luminaire Tested: **LD8B120D010 ER8B120950 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247133
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 ER8B120950 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12772.0 lumens
Efficiency: N/A
Efficacy: 108.0 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

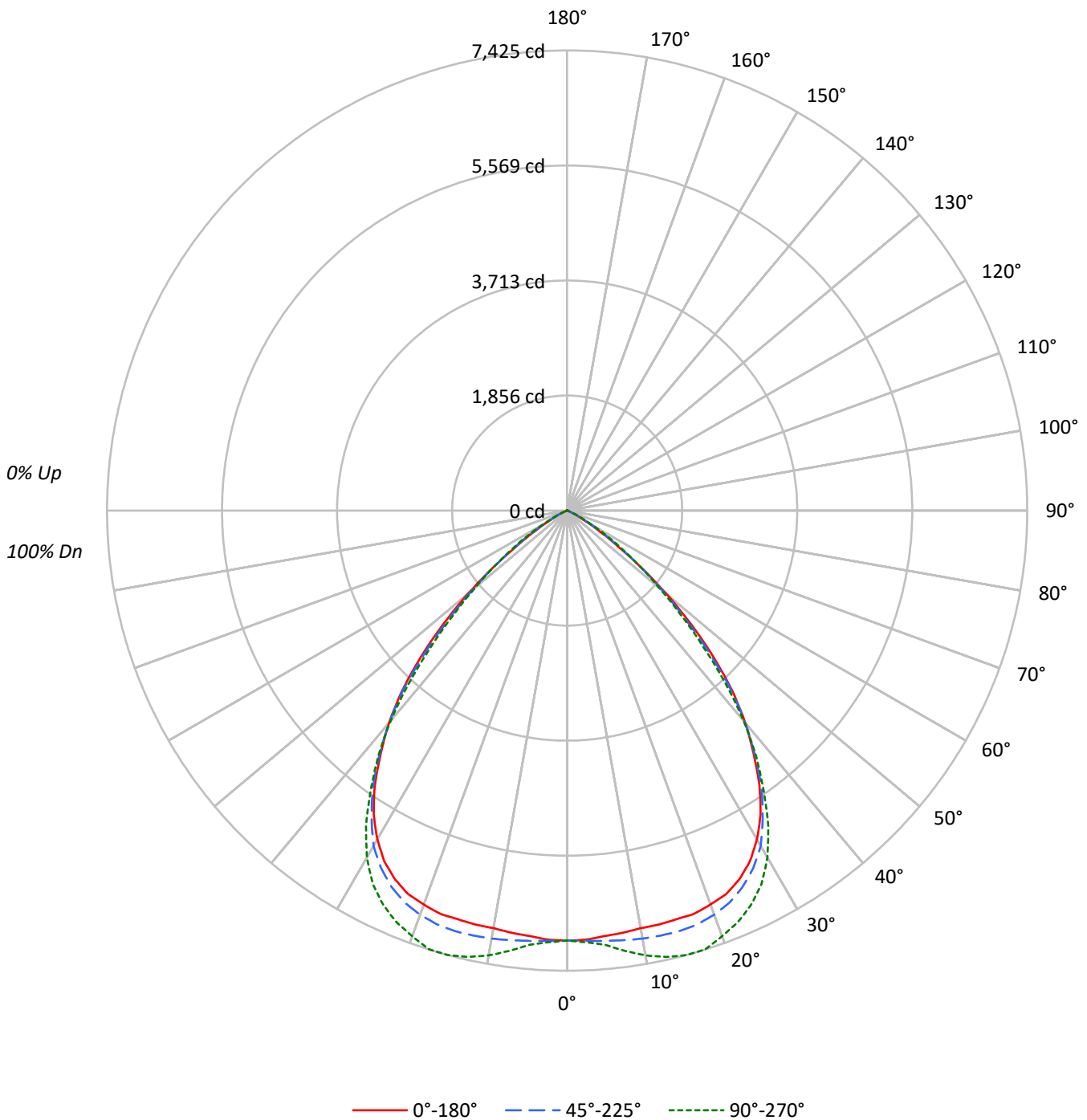
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247133

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSOLI

Luminous Intensity Polar Plot





TEST NUMBER: P247133

CATALOG NUMBER: LD8B120D010 ER8B120950 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	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°	213930	213930	213930
5°	213360	215716	217734
10°	214212	219613	228205
15°	217920	224209	237046
20°	221953	227706	239831
25°	223430	227958	238866
30°	218148	222503	230048
35°	203632	205729	208184
40°	180072	179907	178538
45°	145615	141468	135245
50°	100033	96190	93062
55°	51487	54772	58643
60°	21450	25384	28487
65°	8325	8821	10405
70°	2209	2083	2813
75°	977	1775	1620
80°	1456	1687	0
85°	0	0	0



TEST NUMBER: P247133

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSOLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.6	5.2
10°-20°	1998.7	15.6
20°-30°	3092.8	24.2
30°-40°	3387.5	26.5
40°-50°	2478.3	19.4
50°-60°	972.4	7.6
60°-70°	157.4	1.2
70°-80°	14.5	0.1
80°-90°	2.9	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°	5759.0	45.1
0°-40°	9146.5	71.6
0°-60°	12597.2	98.6
0°-90°	12772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6938	6938	6938	6938	6938	
5°	6893	6909	6969	7019	7034	657
15°	6826	6871	7023	7284	7425	1933
25°	6567	6587	6700	6902	7020	3011
35°	5409	5419	5465	5517	5530	3349
45°	3339	3334	3244	3145	3101	2543
55°	958	978	1019	1056	1091	942
65°	114	111	121	133	143	138
75°	8	12	15	11	14	14
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



TEST NUMBER: P247133

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSOLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6937.6	6937.6	6937.6	6937.6	6937.6
2.5°	6930.8	6934.9	6948.5	6962.1	6970.2
5°	6892.8	6909.1	6968.9	7019.1	7034.1
7.5°	6869.7	6896.9	6990.6	7116.9	7165.8
10°	6841.2	6880.6	7013.7	7193.0	7288.1
12.5°	6842.5	6880.6	7021.8	7255.5	7377.8
15°	6826.2	6871.0	7023.2	7284.0	7425.3
17.5°	6822.1	6843.9	6998.7	7263.6	7419.9
20°	6763.7	6793.6	6939.0	7174.0	7308.5
22.5°	6699.9	6713.5	6846.6	7077.5	7191.6
25°	6566.8	6587.1	6699.9	6902.3	7020.5
27.5°	6383.4	6387.4	6501.5	6689.0	6792.3
30°	6126.6	6147.0	6248.9	6387.4	6460.8
32.5°	5808.7	5806.0	5872.6	5993.5	6041.0
35°	5409.4	5418.9	5465.1	5516.7	5530.3
37.5°	4940.7	4952.9	4984.2	5001.8	5014.0
40°	4473.4	4473.4	4469.3	4450.3	4435.3
42.5°	3940.9	3923.2	3902.8	3818.6	3781.9
45°	3339.1	3333.6	3244.0	3144.8	3101.3
47.5°	2706.0	2676.1	2582.4	2502.3	2484.6
50°	2085.2	2054.0	2005.1	1965.7	1939.9
52.5°	1486.1	1463.1	1483.4	1483.4	1480.7
55°	957.7	978.1	1018.8	1055.5	1090.8
57.5°	607.2	634.4	696.9	744.4	756.7
60°	347.8	368.1	411.6	453.7	461.9
62.5°	218.7	220.1	248.6	273.0	288.0
65°	114.1	111.4	120.9	133.1	142.6
67.5°	47.5	47.5	57.1	55.7	70.6
70°	24.5	20.4	23.1	27.2	31.2
72.5°	17.7	13.6	19.0	24.5	10.9
75°	8.2	12.2	14.9	10.9	13.6
77.5°	10.9	10.9	8.2	13.6	2.7
80°	8.2	5.4	9.5	4.1	0.0
82.5°	1.4	2.7	1.4	1.4	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	4.1	6.8	5.4	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)