

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: P247275

Luminaire Tested: **LD8B90D010 ER8B90950 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90950 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8569.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

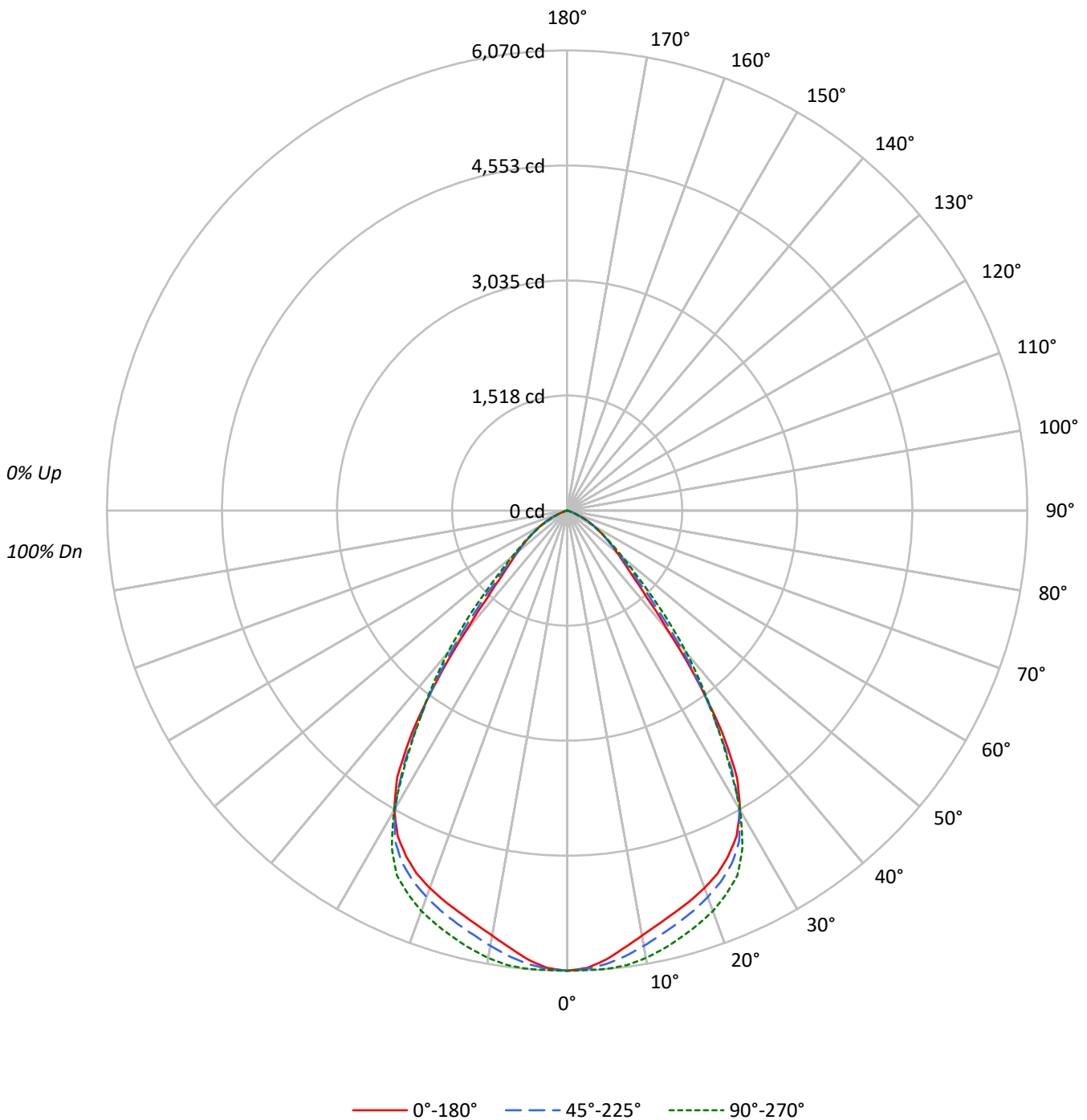
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247275

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBW0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P247275

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBW0WMH

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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	187180	187180	187180
5°	183973	185740	187799
10°	178228	182555	187628
15°	175212	179854	185990
20°	173833	178026	184468
25°	171083	174864	180733
30°	162324	161658	162694
35°	133803	129071	128758
40°	83833	91316	98884
45°	53133	59069	66495
50°	40911	42504	45493
55°	32386	32278	33450
60°	25236	24725	24601
65°	16979	16293	15841
70°	7772	7114	6744
75°	3717	3336	3098
80°	1847	1651	1651
85°	1097	1097	743



TEST NUMBER: P247275

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBW0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.7	6.6
10°-20°	1594.0	18.6
20°-30°	2347.6	27.4
30°-40°	2135.2	24.9
40°-50°	1105.4	12.9
50°-60°	553.8	6.5
60°-70°	225.5	2.6
70°-80°	36.0	0.4
80°-90°	3.8	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°	4509.3	52.6
0°-40°	6644.5	77.5
0°-60°	8303.7	96.9
0°-90°	8569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6070	6070	6070	6070	6070	
5°	5943	5959	6000	6046	6067	559
15°	5488	5526	5634	5764	5826	1551
25°	5028	5063	5139	5257	5312	2302
35°	3554	3532	3429	3400	3420	2143
45°	1218	1261	1354	1459	1525	1004
55°	602	600	600	612	622	547
65°	233	232	223	220	217	235
75°	31	30	28	26	26	39
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



TEST NUMBER: P247275

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBW0WMH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6070.1	6070.1	6070.1	6070.1	6070.1
2.5°	6037.9	6041.0	6049.3	6058.7	6065.9
5°	5943.4	5959.0	6000.5	6046.2	6067.0
7.5°	5814.6	5848.9	5924.7	6009.9	6047.2
10°	5692.0	5731.5	5830.2	5944.4	5992.2
12.5°	5584.0	5622.4	5729.4	5857.2	5916.4
15°	5488.4	5525.8	5633.8	5763.7	5826.0
17.5°	5398.1	5432.3	5535.2	5665.0	5728.4
20°	5297.3	5327.4	5425.1	5550.8	5621.4
22.5°	5183.1	5205.9	5297.3	5416.8	5479.1
25°	5028.3	5062.6	5139.4	5256.8	5311.9
27.5°	4839.3	4861.1	4914.0	4985.7	5008.6
30°	4558.8	4557.8	4540.1	4540.1	4569.2
32.5°	4169.3	4119.4	4035.3	3984.4	3980.3
35°	3554.4	3531.5	3428.7	3399.6	3420.4
37.5°	2804.5	2820.0	2846.0	2887.6	2924.9
40°	2082.6	2122.0	2268.5	2399.4	2456.5
42.5°	1553.9	1604.8	1754.3	1897.7	1967.3
45°	1218.4	1261.0	1354.5	1459.4	1524.8
47.5°	1007.5	1029.3	1079.2	1149.8	1183.1
50°	852.8	863.2	886.0	922.4	948.3
52.5°	724.0	719.8	732.3	756.2	765.5
55°	602.4	600.4	600.4	611.8	622.2
57.5°	499.6	496.5	490.3	495.5	498.6
60°	409.2	406.1	400.9	399.9	398.9
62.5°	329.3	324.1	313.7	311.6	311.6
65°	232.7	231.6	223.3	220.2	217.1
67.5°	144.4	140.2	133.0	126.7	125.7
70°	86.2	85.2	78.9	74.8	74.8
72.5°	51.9	49.9	46.7	44.7	43.6
75°	31.2	30.1	28.0	26.0	26.0
77.5°	18.7	17.7	16.6	15.6	15.6
80°	10.4	10.4	9.3	9.3	9.3
82.5°	6.2	6.2	5.2	5.2	5.2
85°	3.1	3.1	3.1	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)