

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: P247419

Luminaire Tested: **LD8B90D010 ER8B90950 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90950 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9037.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

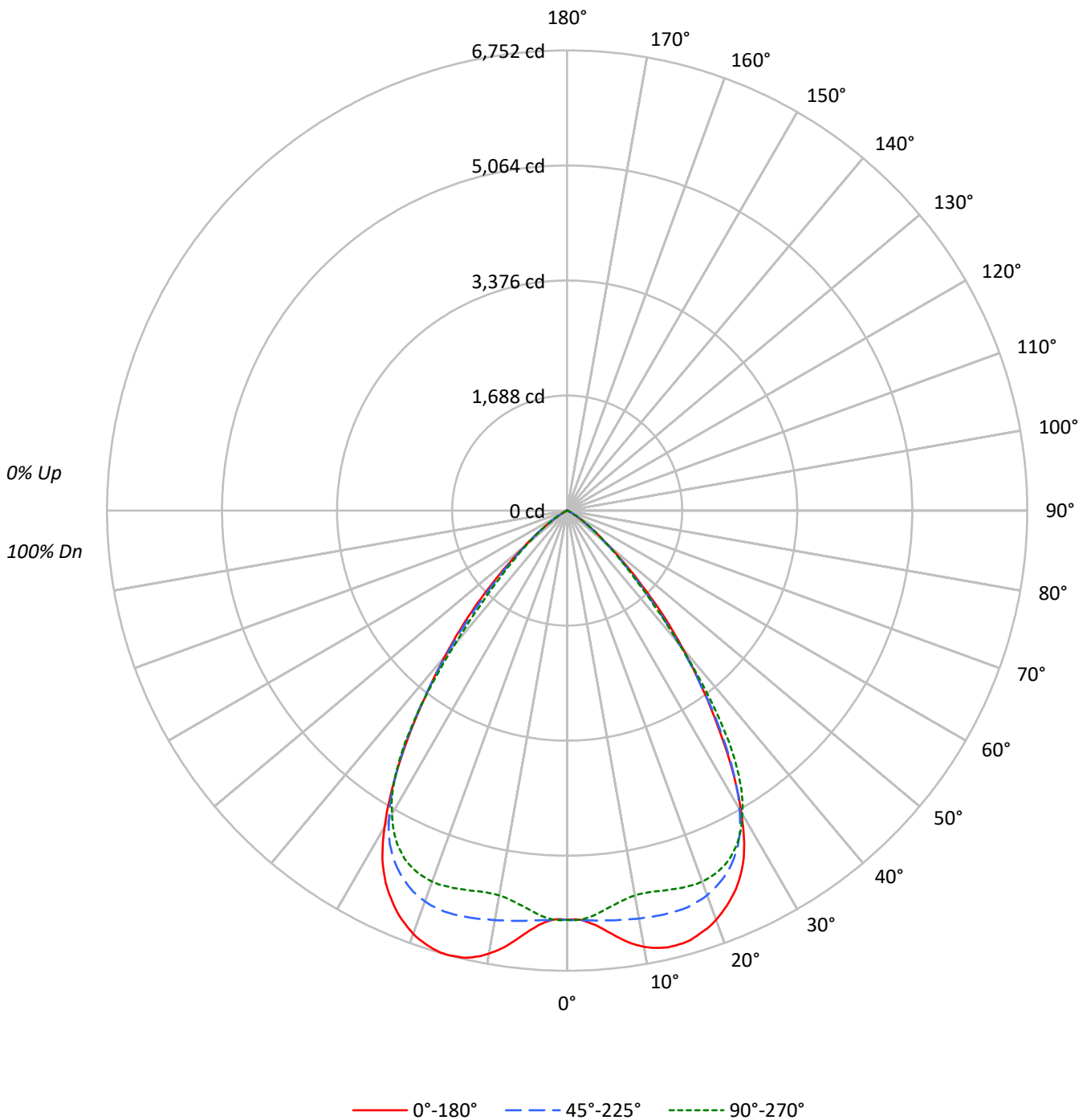
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247419

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P247419

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBW0WH

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76					76			
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70					70			
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64					64			
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	185231	185231	185231
5°	190916	182623	191231
10°	203509	179540	206706
15°	209770	183947	215552
20°	209765	190086	216883
25°	203338	191879	210633
30°	181997	183083	190717
35°	144956	155809	153024
40°	105904	103030	111962
45°	67660	60316	73556
50°	36603	35864	39299
55°	18795	19483	18795
60°	8184	8184	5976
65°	1678	2240	1861
70°	1145	1614	1839
75°	0	917	0
80°	444	444	1811
85°	0	885	0



TEST NUMBER: P247419

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.0	6.4
10°-20°	1742.0	19.3
20°-30°	2651.4	29.3
30°-40°	2467.5	27.3
40°-50°	1200.9	13.3
50°-60°	342.2	3.8
60°-70°	44.7	0.5
70°-80°	7.1	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°	4972.5	55.0
0°-40°	7439.9	82.3
0°-60°	8983.1	99.4
0°-90°	9037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9037.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6007	6007	6007	6007	6007	
5°	6168	6032	5900	6038	6178	601
15°	6571	6094	5762	6152	6752	1849
25°	5976	5716	5640	5841	6191	2713
35°	3851	3904	4139	4096	4065	2394
45°	1552	1437	1383	1549	1687	1226
55°	350	350	362	355	350	343
65°	23	28	31	28	26	44
75°	0	2	8	2	0	5
85°	0	2	2	5	0	1
90°	0	0	0	0	0	



TEST NUMBER: P247419

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBW0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9
1°	5999.2	6006.9	6012.0	6009.5	6012.0	6009.5	6004.4	5994.2	5994.2
2°	6009.5	6019.7	6017.1	6012.0	6004.4	6004.4	6019.7	5999.2	6004.4
3°	6050.3	6050.3	6019.7	5991.7	5981.4	5991.7	6017.1	6032.4	6045.2
4°	6101.3	6091.1	6029.9	5966.1	5945.7	5971.2	6027.4	6075.8	6101.3
5°	6167.7	6137.0	6032.4	5935.5	5899.8	5938.0	6037.6	6129.4	6177.9
6°	6244.3	6198.3	6047.8	5902.3	5856.4	5909.9	6052.9	6193.2	6267.2
7°	6320.8	6246.8	6055.4	5876.8	5818.0	5892.1	6065.6	6264.6	6361.6
8°	6392.3	6292.7	6063.1	5853.9	5782.3	5858.9	6075.8	6328.4	6456.0
9°	6451.0	6336.1	6068.1	5836.0	5751.8	5838.5	6088.6	6384.6	6535.1
10°	6499.4	6369.3	6078.4	5825.7	5733.9	5828.3	6101.3	6433.1	6601.5
11°	6537.7	6392.3	6080.9	5820.7	5726.2	5820.7	6111.5	6481.5	6657.7
12°	6560.6	6412.6	6088.6	5823.2	5728.8	5828.3	6126.8	6502.0	6703.6
13°	6576.0	6420.3	6093.7	5830.9	5733.9	5833.4	6137.0	6519.9	6734.1
14°	6576.0	6415.3	6093.7	5838.5	5749.2	5843.6	6144.7	6532.6	6741.8
15°	6570.9	6412.6	6093.7	5851.2	5762.0	5853.9	6152.4	6540.3	6752.0
16°	6555.6	6397.3	6091.1	5858.9	5774.7	5864.0	6154.9	6535.1	6744.4
17°	6524.9	6389.7	6080.9	5866.6	5787.5	5874.2	6154.9	6522.4	6726.5
18°	6484.1	6336.1	6055.4	5858.9	5790.0	5871.7	6139.7	6489.2	6693.4
19°	6448.4	6305.5	6037.6	5853.9	5800.2	5879.4	6129.4	6466.2	6657.7
20°	6392.3	6254.5	6006.9	5838.5	5792.6	5864.0	6103.9	6425.5	6609.2
21°	6323.4	6195.7	5963.5	5813.0	5779.8	5843.6	6068.1	6369.3	6542.8
22°	6254.5	6129.4	5917.6	5787.5	5759.4	5825.7	6029.9	6310.5	6473.9
23°	6172.7	6055.4	5858.9	5744.1	5728.8	5785.0	5976.3	6246.8	6392.3
24°	6080.9	5968.7	5795.1	5695.6	5690.5	5741.6	5915.1	6162.6	6295.3
25°	5976.3	5876.8	5716.1	5634.3	5639.5	5682.9	5841.0	6068.1	6190.7
26°	5851.2	5759.4	5624.2	5560.4	5568.1	5611.4	5756.8	5958.5	6075.8
27°	5710.9	5626.7	5517.0	5471.0	5491.5	5529.7	5654.8	5838.5	5933.0
28°	5534.9	5468.5	5389.4	5369.0	5394.5	5437.9	5542.5	5693.1	5777.3
29°	5330.7	5295.0	5233.7	5243.9	5279.6	5315.4	5402.1	5511.9	5578.3
30°	5111.3	5095.9	5060.2	5101.1	5141.8	5172.5	5231.2	5305.2	5356.2
31°	4886.7	4868.9	4873.9	4940.3	5001.5	5021.9	5055.1	5090.8	5129.1
32°	4634.1	4629.0	4649.3	4746.4	4825.5	4835.7	4838.2	4848.4	4868.9
33°	4376.3	4368.7	4409.5	4529.5	4618.8	4626.4	4606.0	4595.8	4611.1
34°	4108.4	4108.4	4162.0	4287.1	4391.7	4399.2	4358.5	4353.3	4338.0
35°	3850.7	3843.0	3904.2	4021.6	4139.0	4141.6	4095.6	4067.5	4065.0
37.5°	3212.7	3200.0	3220.3	3281.6	3368.3	3414.3	3409.2	3399.0	3391.3
40°	2630.9	2600.3	2559.5	2533.9	2559.5	2653.9	2735.5	2773.8	2781.4
42.5°	2082.3	2038.9	1952.2	1880.6	1890.9	1977.7	2102.7	2189.4	2232.8
45°	1551.5	1508.1	1436.7	1383.1	1383.1	1444.3	1548.9	1638.2	1686.7
47.5°	1107.5	1079.4	1038.6	1015.6	1030.9	1056.4	1115.1	1181.5	1201.9
50°	763.0	755.3	732.4	732.4	747.6	768.1	778.3	811.5	819.2
52.5°	533.4	520.5	523.1	525.7	538.4	541.0	556.3	548.6	561.4
55°	349.6	349.6	349.6	357.2	362.4	362.4	354.7	349.6	349.6
57.5°	222.0	216.9	219.4	224.6	224.6	216.9	204.2	201.6	188.9



TEST NUMBER: P247419

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBW0WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	132.7	132.7	135.3	135.3	132.7	125.0	112.3	102.1	96.9
62.5°	68.9	71.4	71.4	84.2	71.4	63.8	58.7	45.9	43.4
65°	23.0	28.0	28.0	28.0	30.7	28.0	28.0	25.5	25.5
67.5°	15.3	17.9	17.9	20.4	20.4	20.4	20.4	25.5	17.9
70°	12.7	12.7	15.3	17.9	17.9	20.4	15.3	12.7	20.4
72.5°	7.7	10.2	7.7	12.7	10.2	10.2	10.2	10.2	10.2
75°	0.0	5.1	2.5	0.0	7.7	5.1	2.5	5.1	0.0
77.5°	2.5	2.5	2.5	2.5	5.1	5.1	5.1	5.1	2.5
80°	2.5	2.5	5.1	2.5	2.5	5.1	0.0	0.0	10.2
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	0.0	2.5	2.5
85°	0.0	2.5	2.5	2.5	2.5	2.5	5.1	5.1	0.0
87.5°	0.0	2.5	0.0	2.5	0.0	0.0	0.0	5.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)