

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: P250194

Luminaire Tested: **LD8B150D010 ER8B1509727 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B1509727 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11261.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

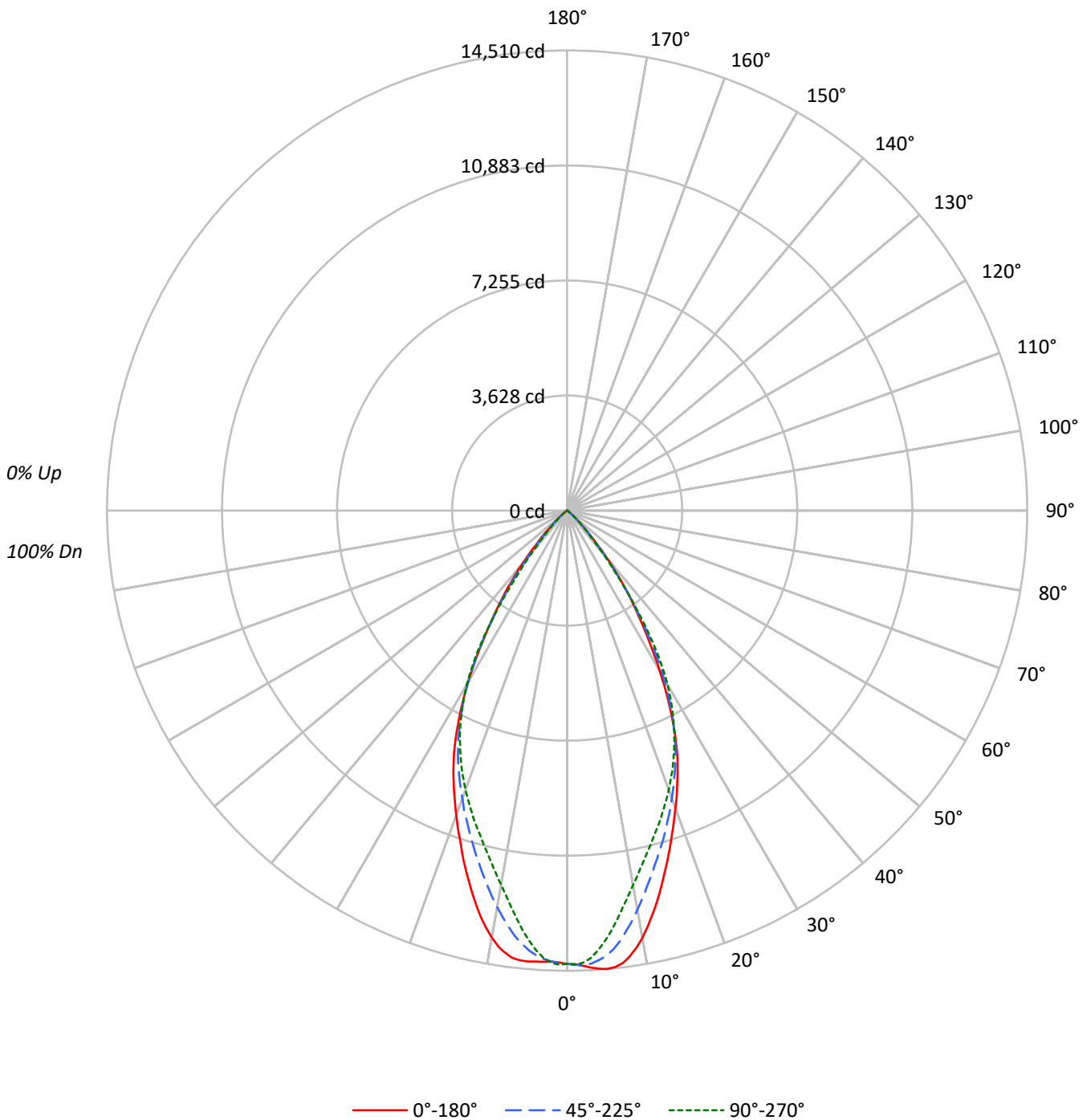
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1297.4	11.5
10°-20°	3137.9	27.9
20°-30°	3677.7	32.7
30°-40°	2419.7	21.5
40°-50°	631.4	5.6
50°-60°	77.7	0.7
60°-70°	16.1	0.1
70°-80°	3.0	0.0
80°-90°	0.1	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°	8112.9	72.0
0°-40°	10532.7	93.5
0°-60°	11241.8	99.8
0°-90°	11261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11261.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14291	14291	14291	14291	14291	
5°	14510	14097	13631	13912	14274	###
15°	11845	11174	10605	11174	12047	3302
25°	8138	8058	7999	8134	8436	3669
35°	3700	3784	3912	3951	4013	2317
45°	719	678	632	733	855	645
55°	56	59	66	66	63	74
65°	21	17	17	14	14	15
75°	0	4	0	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	14291.2	14291.2	14291.2	14291.2	14291.2	14291.2	14291.2	14291.2	14291.2
1°	14301.6	14322.5	14329.4	14350.3	14319.0	14298.2	14270.4	14249.5	14253.0
2°	14364.2	14374.6	14336.4	14322.5	14266.9	14249.5	14228.6	14225.2	14228.6
3°	14430.2	14409.3	14308.6	14214.8	14131.4	14120.9	14159.2	14214.8	14246.0
4°	14482.3	14426.7	14214.8	14041.0	13909.0	13898.6	14051.5	14193.9	14253.0
5°	14510.1	14409.3	14096.6	13804.7	13631.0	13697.0	13912.5	14166.1	14273.8
6°	14471.9	14322.5	13915.9	13526.8	13328.7	13415.6	13731.8	14100.1	14259.9
7°	14374.6	14183.5	13683.2	13224.5	12981.2	13116.8	13519.8	13988.9	14207.8
8°	14193.9	13964.6	13387.8	12873.5	12633.8	12786.6	13259.3	13829.1	14082.7
9°	13957.6	13704.0	13095.9	12553.9	12296.8	12477.4	12988.2	13617.1	13909.0
10°	13676.2	13405.1	12772.8	12220.3	11987.5	12157.8	12696.3	13370.4	13672.7
11°	13346.1	13085.5	12449.6	11907.6	11685.2	11852.0	12404.5	13075.1	13401.7
12°	12988.2	12748.5	12119.6	11605.3	11396.8	11556.7	12091.8	12769.3	13092.5
13°	12630.3	12390.5	11799.9	11313.4	11122.3	11275.2	11786.0	12435.8	12758.8
14°	12244.6	12025.7	11480.2	11035.4	10861.7	11007.6	11473.3	12098.7	12404.5
15°	11845.1	11671.3	11174.4	10767.9	10604.6	10743.6	11174.4	11751.2	12046.6
16°	11469.8	11309.9	10879.1	10503.8	10368.4	10479.5	10872.2	11403.8	11685.2
17°	11087.5	10941.6	10583.7	10243.2	10121.6	10229.4	10562.9	11052.9	11306.5
18°	10705.4	10583.7	10260.6	9968.8	9861.1	9958.3	10257.2	10698.4	10927.7
19°	10350.9	10239.7	9965.3	9718.6	9621.3	9708.1	9989.6	10357.9	10587.2
20°	9986.1	9895.7	9656.0	9454.5	9364.1	9444.0	9663.0	10020.9	10222.4
21°	9635.2	9555.2	9346.8	9176.5	9103.5	9169.6	9371.1	9694.3	9871.4
22°	9270.4	9225.2	9037.6	8895.1	8846.4	8888.1	9072.3	9350.3	9517.1
23°	8912.4	8870.8	8728.3	8610.2	8568.4	8610.2	8773.5	9023.6	9173.1
24°	8551.1	8505.9	8401.7	8325.2	8290.5	8325.2	8464.2	8676.2	8818.6
25°	8137.6	8130.7	8057.7	8016.0	7998.6	8036.8	8134.2	8318.3	8436.4
26°	7741.5	7720.6	7699.8	7692.8	7696.3	7717.1	7797.1	7936.1	8029.9
27°	7255.1	7286.4	7317.6	7359.3	7373.2	7390.6	7428.8	7529.5	7599.1
28°	6789.4	6848.5	6924.9	7008.3	7046.6	7046.6	7050.0	7105.6	7164.7
29°	6327.3	6389.8	6511.5	6636.6	6688.7	6681.7	6653.9	6678.2	6713.0
30°	5844.4	5924.3	6087.6	6250.9	6327.3	6299.5	6247.4	6223.1	6243.9
31°	5371.8	5451.7	5632.4	5809.6	5910.3	5879.1	5788.8	5771.4	5781.8
32°	4920.1	5000.0	5166.8	5354.4	5469.1	5427.4	5333.6	5305.8	5309.2
33°	4482.3	4544.8	4697.7	4871.5	4965.3	4954.8	4878.4	4843.7	4847.1
34°	4068.8	4120.9	4235.5	4367.7	4458.0	4454.5	4398.9	4402.4	4412.8
35°	3700.5	3728.3	3783.8	3856.9	3912.5	3943.7	3950.6	3978.4	4013.2
37.5°	2797.1	2807.5	2741.5	2668.5	2654.6	2745.0	2901.3	3036.9	3089.0
40°	1938.9	1914.5	1831.1	1702.6	1664.3	1765.2	1963.2	2154.3	2223.7
42.5°	1205.7	1195.3	1143.2	1045.9	1011.1	1070.2	1219.6	1365.6	1435.0
45°	719.3	705.3	677.5	639.3	632.4	656.7	733.1	816.5	854.8
47.5°	413.4	410.0	392.6	378.8	375.3	392.6	427.4	476.0	486.5
50°	225.8	222.4	218.9	218.9	218.9	229.3	246.7	260.6	267.6
52.5°	111.2	114.7	111.2	114.7	118.2	125.1	121.6	135.5	135.5
55°	55.6	52.1	59.1	66.1	66.1	66.1	66.1	66.1	62.6
57.5°	41.7	45.1	38.3	41.7	38.3	38.3	34.8	38.3	41.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	27.8	24.3	27.8	31.3	34.8	31.3	24.3	27.8	31.3
62.5°	13.9	13.9	13.9	20.8	31.3	24.3	20.8	17.3	17.3
65°	20.8	13.9	17.3	20.8	17.3	17.3	13.9	17.3	13.9
67.5°	10.5	17.3	10.5	7.0	10.5	13.9	10.5	7.0	7.0
70°	0.0	3.5	3.5	10.5	10.5	10.5	10.5	7.0	7.0
72.5°	3.5	3.5	3.5	7.0	3.5	7.0	3.5	3.5	7.0
75°	0.0	0.0	3.5	3.5	0.0	3.5	0.0	0.0	0.0
77.5°	3.5	0.0	3.5	3.5	0.0	0.0	0.0	3.5	0.0
80°	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	3.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)