

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: P250139

Luminaire Tested: **LD8B175D010 ER8B175835 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250139
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: LD8B175D010 ER8B175835 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18260.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

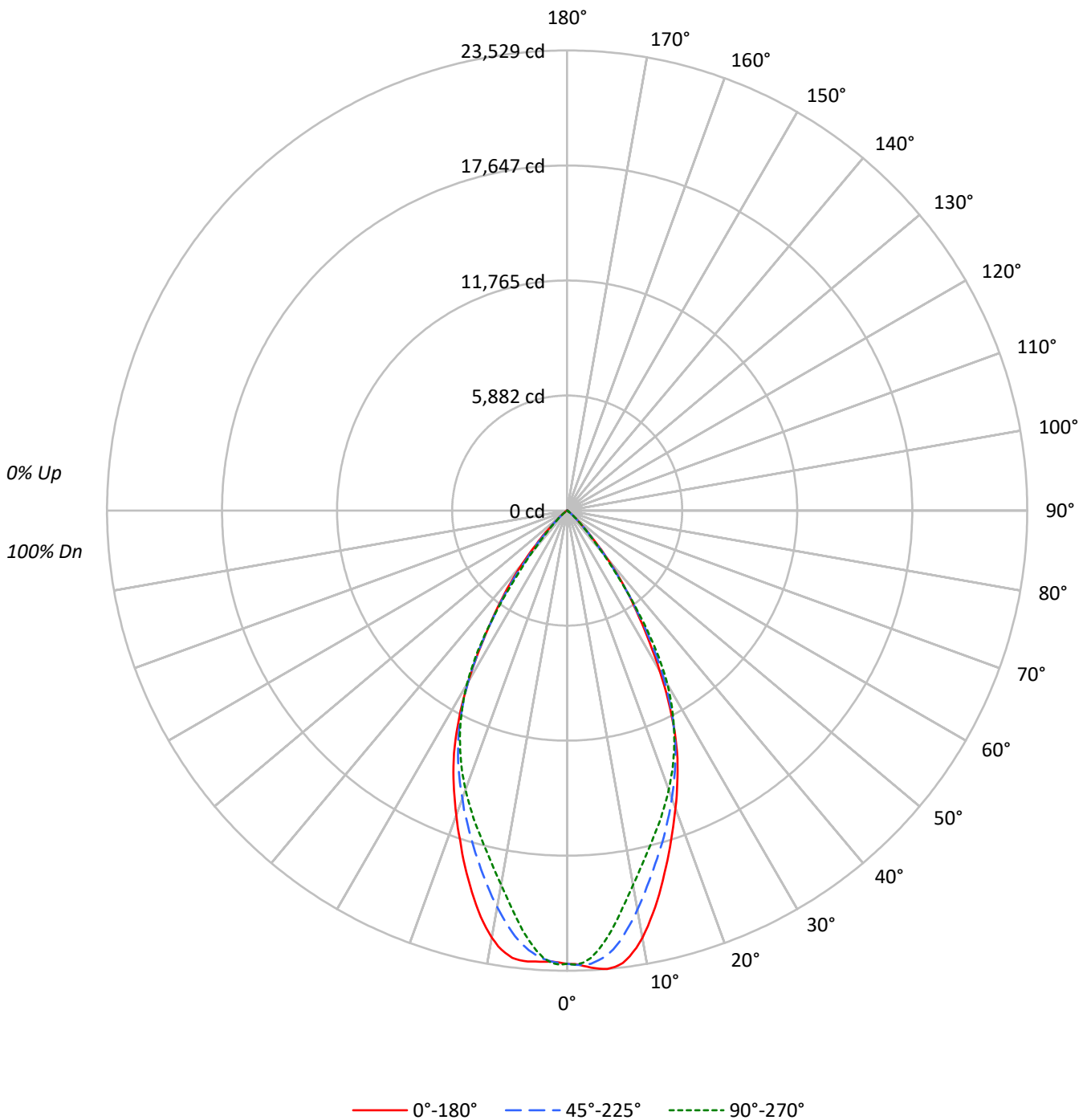
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100	100	100	100		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94	94	94	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87	87	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81	81	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76	76	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71	71	71	71		
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66	66	66	66		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62	62	62		
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55	55	55	55		
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52	52	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	714588	714588	714588
5°	728307	684182	716442
10°	694385	608646	694206
15°	613169	548957	623599
20°	531372	498274	543943
25°	448962	441293	465443
30°	337438	365321	360507
35°	225884	238822	244970
40°	126554	108633	145152
45°	50861	44717	60442
50°	17568	17030	20811
55°	4849	5758	5457
60°	2781	3478	3127
65°	2466	2050	1642
70°	0	1533	1019
75°	0	0	0
80°	0	0	1012
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2103.7	11.5
10°-20°	5088.1	27.9
20°-30°	5963.5	32.7
30°-40°	3923.7	21.5
40°-50°	1023.9	5.6
50°-60°	125.9	0.7
60°-70°	26.1	0.1
70°-80°	4.9	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°	13155.4	72.0
0°-40°	17079.0	93.5
0°-60°	18228.9	99.8
0°-90°	18260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18260.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23174	23174	23174	23174	23174	
5°	23529	22858	22103	22559	23145	###
15°	19207	18120	17196	18120	19534	5354
25°	13195	13066	12970	13190	13680	5949
35°	6000	6136	6344	6406	6508	3757
45°	1166	1099	1025	1189	1386	1045
55°	90	96	107	107	102	120
65°	34	28	28	22	22	24
75°	0	6	0	0	0	3
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°	23173.6	23173.6	23173.6	23173.6	23173.6	23173.6	23173.6	23173.6	23173.6
1°	23190.4	23224.3	23235.5	23269.4	23218.6	23184.9	23139.8	23105.9	23111.5
2°	23291.9	23308.8	23246.8	23224.3	23134.1	23105.9	23072.1	23066.5	23072.1
3°	23399.0	23365.1	23201.7	23049.6	22914.4	22897.4	22959.5	23049.6	23100.2
4°	23483.5	23393.3	23049.6	22767.8	22553.8	22536.9	22784.8	23015.7	23111.5
5°	23528.6	23365.1	22858.0	22384.7	22103.1	22210.1	22559.4	22970.6	23145.3
6°	23466.5	23224.3	22565.1	21934.1	21612.9	21753.7	22266.4	22863.7	23122.8
7°	23308.8	22998.9	22187.6	21443.8	21049.4	21269.2	21922.8	22683.3	23038.3
8°	23015.7	22643.9	21708.7	20874.8	20486.0	20733.9	21500.2	22424.2	22835.5
9°	22632.6	22221.4	21235.4	20356.4	19939.5	20232.5	21060.7	22080.5	22553.8
10°	22176.3	21736.8	20711.4	19815.6	19438.1	19714.1	20587.5	21680.4	22170.6
11°	21641.0	21218.4	20187.4	19308.5	18947.9	19218.4	20114.2	21201.6	21731.1
12°	21060.7	20672.0	19652.2	18818.3	18480.3	18739.4	19607.1	20705.7	21229.7
13°	20480.3	20091.6	19133.9	18345.0	18035.1	18283.0	19111.3	20164.9	20688.8
14°	19855.0	19500.0	18615.5	17894.2	17612.6	17849.1	18604.2	19618.3	20114.2
15°	19207.1	18925.3	18119.6	17460.4	17195.7	17421.0	18119.6	19054.9	19533.8
16°	18598.5	18339.4	17640.7	17032.2	16812.6	16992.8	17629.5	18491.6	18947.9
17°	17978.7	17742.2	17161.8	16609.6	16412.5	16587.2	17128.0	17922.5	18333.7
18°	17359.0	17161.8	16637.9	16164.6	15990.0	16147.7	16632.3	17347.7	17719.6
19°	16784.3	16604.0	16159.0	15758.9	15601.2	15742.0	16198.4	16795.6	17167.4
20°	16192.8	16046.2	15657.4	15330.7	15184.2	15313.8	15668.7	16249.1	16575.9
21°	15623.7	15494.1	15156.0	14879.9	14761.6	14868.7	15195.5	15719.5	16006.8
22°	15032.1	14958.9	14654.6	14423.6	14344.7	14412.3	14710.9	15161.7	15432.2
23°	14451.7	14384.2	14153.1	13961.6	13893.9	13961.6	14226.5	14632.0	14874.4
24°	13865.8	13792.6	13623.6	13499.5	13443.3	13499.5	13724.9	14068.6	14299.7
25°	13195.4	13184.1	13065.8	12998.1	12970.0	13031.9	13189.7	13488.4	13679.8
26°	12553.0	12519.2	12485.4	12474.1	12479.8	12513.6	12643.1	12868.5	13020.7
27°	11764.3	11815.0	11865.6	11933.3	11955.8	11984.0	12045.9	12209.3	12322.1
28°	11009.2	11105.0	11229.0	11364.2	11426.2	11426.2	11431.8	11521.9	11617.7
29°	10259.9	10361.3	10558.6	10761.3	10845.9	10834.6	10789.5	10828.9	10885.3
30°	9476.8	9606.4	9871.2	10136.0	10259.9	10214.9	10130.4	10090.9	10124.7
31°	8710.5	8840.1	9133.1	9420.4	9583.8	9533.2	9386.6	9358.5	9375.3
32°	7978.1	8107.7	8378.0	8682.3	8868.3	8800.7	8648.5	8603.4	8609.1
33°	7268.1	7369.6	7617.5	7899.2	8051.3	8034.3	7910.4	7854.2	7859.7
34°	6597.7	6682.2	6868.0	7082.3	7228.7	7223.0	7132.9	7138.5	7155.5
35°	6000.5	6045.6	6135.6	6254.0	6344.2	6394.8	6406.1	6451.2	6507.5
37.5°	4535.6	4552.4	4445.4	4327.0	4304.5	4451.1	4704.6	4924.4	5008.9
40°	3143.9	3104.5	2969.2	2760.8	2698.7	2862.2	3183.3	3493.2	3605.9
42.5°	1955.1	1938.2	1853.7	1696.0	1639.6	1735.4	1977.6	2214.3	2326.9
45°	1166.3	1143.7	1098.6	1036.7	1025.4	1064.8	1188.8	1324.0	1386.0
47.5°	670.4	664.9	636.6	614.2	608.5	636.6	693.0	771.9	788.8
50°	366.2	360.6	355.0	355.0	355.0	371.8	400.1	422.5	433.8
52.5°	180.3	186.0	180.3	186.0	191.6	202.8	197.1	219.7	219.7
55°	90.2	84.5	95.8	107.1	107.1	107.1	107.1	107.1	101.5
57.5°	67.6	73.2	62.0	67.6	62.0	62.0	56.4	62.0	67.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	45.1	39.4	45.1	50.7	56.4	50.7	39.4	45.1	50.7
62.5°	22.5	22.5	22.5	33.8	50.7	39.4	33.8	28.1	28.1
65°	33.8	22.5	28.1	33.8	28.1	28.1	22.5	28.1	22.5
67.5°	17.0	28.1	17.0	11.3	17.0	22.5	17.0	11.3	11.3
70°	0.0	5.7	5.7	17.0	17.0	17.0	17.0	11.3	11.3
72.5°	5.7	5.7	5.7	11.3	5.7	11.3	5.7	5.7	11.3
75°	0.0	0.0	5.7	5.7	0.0	5.7	0.0	0.0	0.0
77.5°	5.7	0.0	5.7	5.7	0.0	0.0	0.0	5.7	0.0
80°	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	5.7
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)