

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: P247800

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B1759730 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14246.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

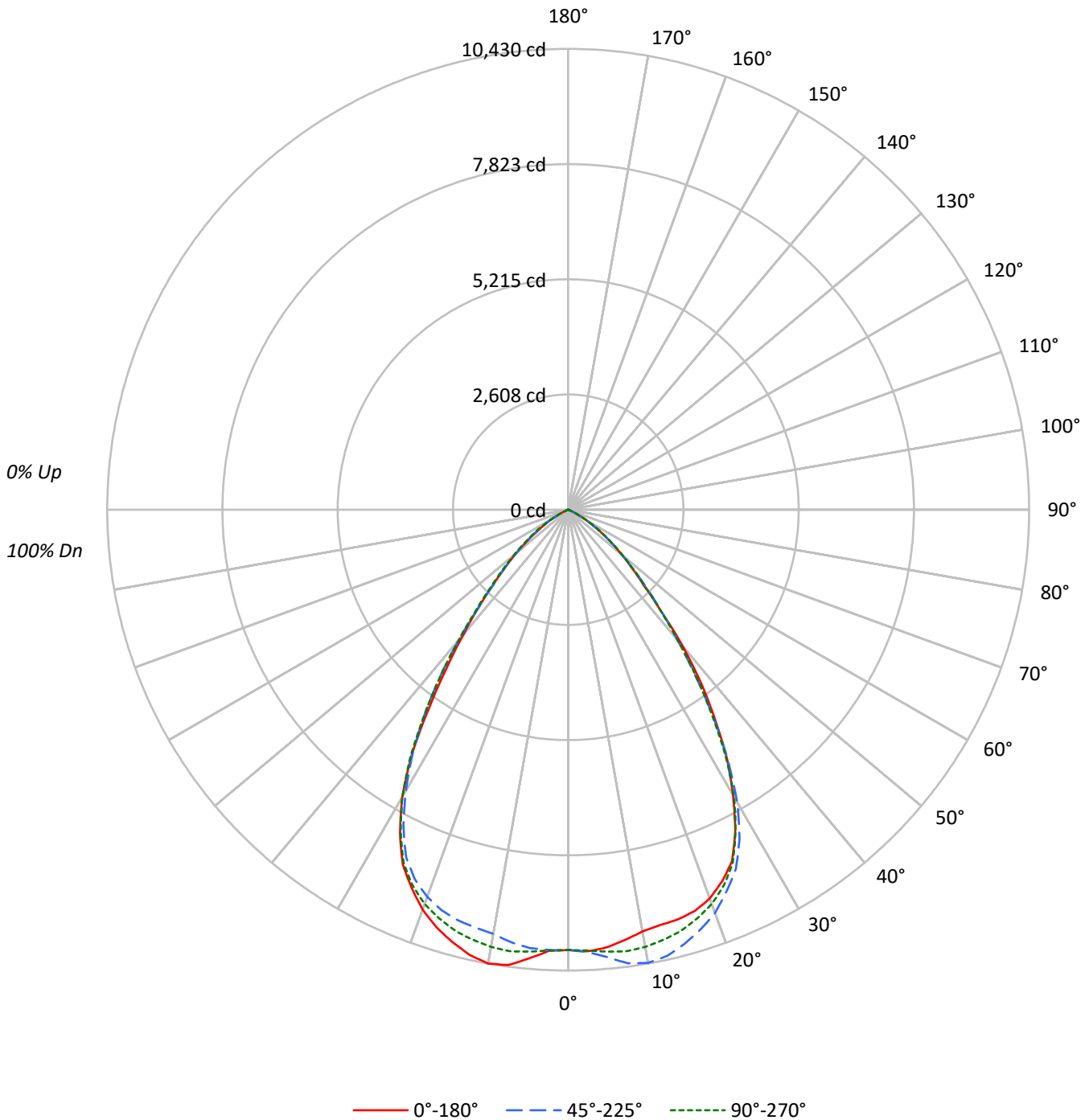
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41

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°	960.2	6.7
10°-20°	2780.8	19.5
20°-30°	3988.7	28.0
30°-40°	3519.8	24.7
40°-50°	1948.8	13.7
50°-60°	858.8	6.0
60°-70°	173.5	1.2
70°-80°	13.0	0.1
80°-90°	2.4	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°	7729.7	54.3
0°-40°	11249.5	79.0
0°-60°	14057.1	98.7
0°-90°	14246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14246.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9964	9964	9964	9964	9964	
5°	9946	10165	10040	9959	10195	940
15°	9601	10172	9865	9624	10129	2709
25°	8775	8972	8812	8680	8859	3964
35°	5794	5710	5669	5673	5497	3594
45°	2410	2512	2469	2377	2389	1963
55°	941	936	968	918	879	862
65°	122	131	152	138	128	169
75°	12	12	9	10	15	12
85°	9	5	2	8	3	4
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°	9963.6	9963.6	9963.6	9963.6	9963.6	9963.6	9963.6	9963.6	9963.6
2.5°	10005.1	9963.6	10018.5	9984.4	9986.9	9935.3	9976.0	10015.1	9993.5
5°	9946.1	9984.4	10164.8	10159.8	10040.1	9884.6	9958.6	10136.6	10194.8
7.5°	9823.8	9961.9	10353.6	10389.4	10081.7	9754.0	9874.6	10245.5	10393.5
10°	9690.8	9889.5	10416.0	10485.9	10047.6	9615.9	9752.3	10219.7	10430.1
12.5°	9626.7	9818.9	10343.6	10411.0	9969.4	9549.4	9687.4	10121.6	10317.0
15°	9601.0	9745.7	10172.3	10233.9	9865.4	9512.0	9624.2	9979.4	10129.1
17.5°	9522.8	9622.6	9960.2	9999.3	9700.8	9420.5	9508.6	9780.6	9911.2
20°	9363.9	9430.5	9714.1	9734.9	9494.5	9256.6	9324.8	9539.4	9628.4
22.5°	9101.9	9146.0	9355.6	9363.1	9205.9	8999.6	9056.2	9224.2	9257.5
25°	8775.1	8779.2	8972.2	8936.4	8812.5	8621.2	8680.3	8824.2	8859.1
27.5°	8187.1	8201.2	8396.7	8349.3	8202.9	8036.6	8073.1	8204.6	8239.5
30°	7457.7	7536.7	7649.8	7626.5	7501.0	7333.8	7341.3	7470.2	7507.6
32.5°	6690.9	6667.6	6725.8	6708.4	6643.5	6511.2	6555.3	6588.6	6597.7
35°	5793.5	5774.4	5710.3	5629.7	5668.8	5720.3	5672.9	5599.7	5497.4
37.5°	4931.0	4823.8	4699.0	4615.0	4753.9	4808.0	4761.4	4602.5	4520.2
40°	4016.2	3903.1	3835.7	3814.9	3856.5	3896.4	3844.0	3766.7	3685.2
42.5°	3097.2	3096.4	3113.0	3108.8	3080.6	3023.2	2981.6	3014.9	3001.5
45°	2410.2	2447.6	2512.5	2523.3	2469.3	2385.3	2377.0	2408.6	2389.4
47.5°	1961.9	1975.2	1998.5	2031.8	2001.0	1958.6	1937.0	1947.0	1929.5
50°	1581.9	1585.2	1596.0	1621.0	1609.3	1580.2	1559.4	1546.9	1540.3
52.5°	1242.5	1235.0	1243.4	1251.7	1267.5	1248.4	1230.9	1204.3	1183.5
55°	940.6	934.8	936.5	943.1	968.1	946.5	918.2	900.7	879.1
57.5°	682.8	663.7	667.8	690.3	713.6	704.4	679.5	651.2	624.6
60°	459.9	455.8	454.9	479.0	496.5	493.2	464.9	444.1	435.0
62.5°	272.0	269.5	276.1	286.9	307.7	292.8	273.6	262.8	259.5
65°	122.3	128.1	131.4	139.7	152.2	148.9	138.1	126.4	128.1
67.5°	53.2	40.8	45.7	51.6	48.2	50.7	44.9	47.4	45.7
70°	25.8	27.4	25.8	32.4	29.9	31.6	25.8	30.8	24.1
72.5°	18.3	15.8	20.0	23.3	20.0	23.3	20.8	15.8	12.5
75°	12.5	7.5	12.5	7.5	9.1	13.3	10.0	13.3	15.0
77.5°	1.7	5.8	2.5	3.3	1.7	4.2	4.2	2.5	7.5
80°	1.7	2.5	1.7	3.3	5.0	0.8	3.3	7.5	0.0
82.5°	5.8	0.0	0.8	0.0	0.8	1.7	0.0	1.7	0.0
85°	9.1	2.5	5.0	11.6	2.5	5.0	7.5	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.5	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)