

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: P248121

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B1759727 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13120.0 lumens
Efficiency: N/A
Efficacy: 74.0 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

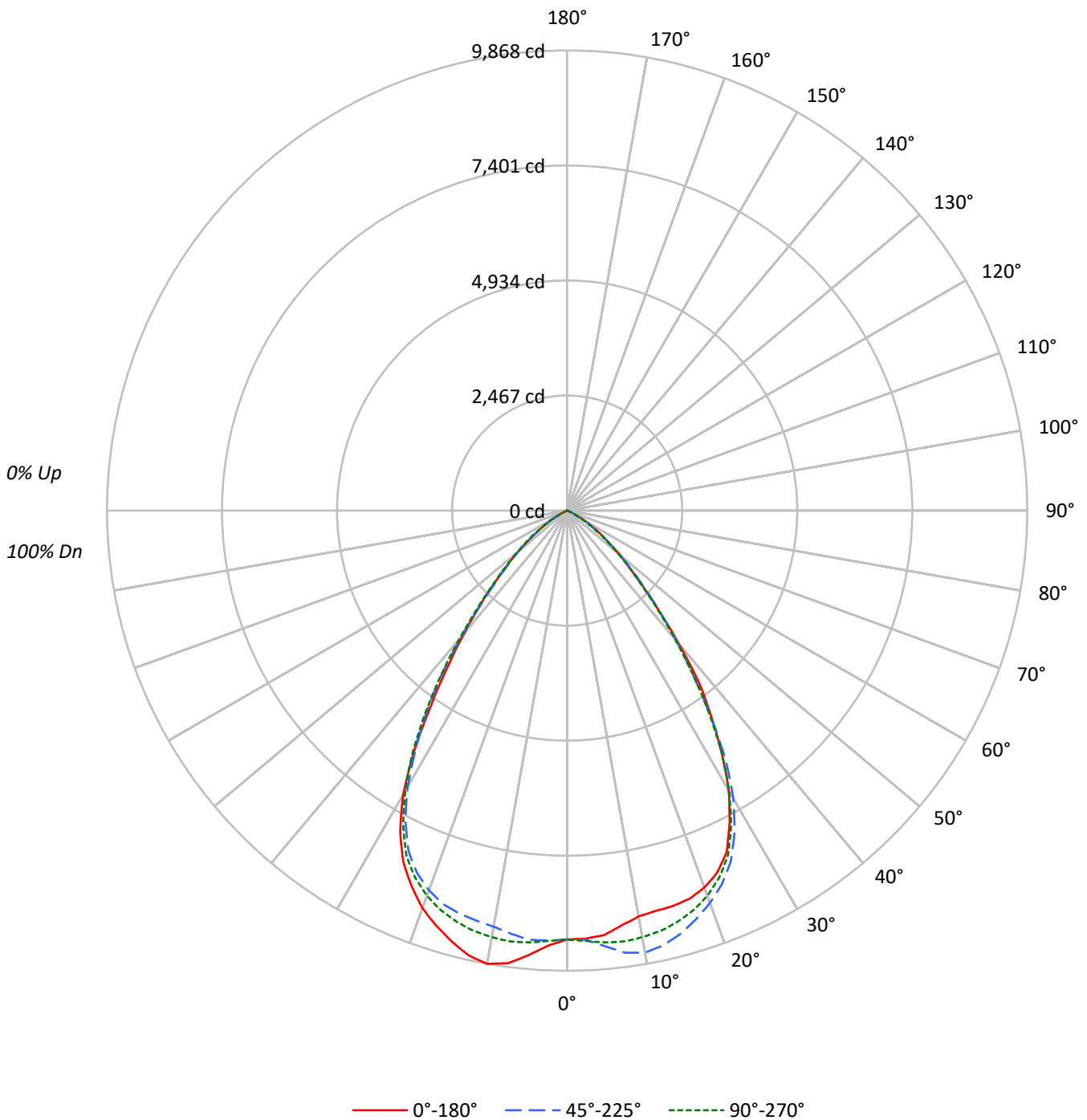
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	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			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69	69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49	49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	42			

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°	889.7	6.8
10°-20°	2580.2	19.7
20°-30°	3705.3	28.2
30°-40°	3275.3	25.0
40°-50°	1792.9	13.7
50°-60°	738.1	5.6
60°-70°	132.3	1.0
70°-80°	5.7	0.0
80°-90°	0.5	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°	7175.3	54.7
0°-40°	10450.6	79.7
0°-60°	12981.6	98.9
0°-90°	13120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13120.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9198	9198	9198	9198	9198	
5°	9136	9381	9295	9239	9573	861
15°	8776	9397	9132	8944	9566	2479
25°	8084	8302	8159	8052	8316	3657
35°	5384	5336	5305	5232	5075	3340
45°	2277	2344	2260	2163	2226	1833
55°	873	832	795	769	752	792
65°	140	109	101	81	83	163
75°	7	3	4	5	5	11
85°	2	2	0	5	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°	9197.7	9197.7	9197.7	9197.7	9197.7	9197.7	9197.7	9197.7	9197.7
2.5°	9185.9	9202.4	9210.3	9252.0	9237.8	9218.2	9229.2	9263.0	9336.1
5°	9135.6	9223.7	9380.9	9434.3	9295.2	9174.1	9238.6	9423.3	9572.7
7.5°	8969.7	9191.4	9563.3	9644.2	9321.9	9043.6	9156.1	9554.6	9790.5
10°	8836.9	9112.0	9623.0	9743.3	9289.7	8929.7	9060.9	9548.3	9868.3
12.5°	8792.1	9046.0	9547.6	9683.6	9235.5	8889.6	9005.1	9456.4	9769.2
15°	8776.4	8980.0	9396.6	9505.9	9132.5	8850.3	8943.8	9306.2	9565.6
17.5°	8727.6	8879.3	9189.9	9278.7	8991.0	8772.4	8844.8	9126.2	9334.5
20°	8601.8	8730.8	8954.0	9016.1	8788.9	8617.6	8663.9	8875.4	9073.5
22.5°	8405.3	8488.6	8669.4	8699.3	8519.3	8382.5	8411.6	8569.6	8714.3
25°	8083.8	8141.9	8302.3	8310.2	8159.2	8039.8	8051.5	8183.6	8315.7
27.5°	7542.9	7653.0	7770.9	7804.7	7615.2	7475.3	7511.5	7599.5	7754.4
30°	6929.0	7009.9	7125.5	7099.5	6947.0	6821.3	6836.2	6914.8	7030.4
32.5°	6163.3	6248.9	6307.9	6254.5	6177.4	6065.0	6031.2	6065.0	6096.4
35°	5384.2	5413.3	5336.3	5305.6	5304.8	5270.2	5232.5	5130.3	5075.3
37.5°	4640.5	4549.3	4411.0	4352.0	4419.6	4503.7	4390.5	4256.9	4187.7
40°	3720.0	3722.3	3635.9	3574.5	3599.7	3571.4	3521.9	3436.2	3415.7
42.5°	2907.9	2916.5	2944.1	2909.5	2848.9	2757.0	2729.4	2733.4	2793.9
45°	2277.4	2294.7	2344.2	2339.5	2260.1	2202.0	2163.4	2217.7	2226.3
47.5°	1811.2	1835.6	1856.1	1854.5	1793.2	1735.0	1717.7	1727.9	1749.1
50°	1464.6	1462.2	1446.5	1426.0	1400.9	1389.1	1369.4	1367.9	1367.9
52.5°	1128.1	1132.0	1100.6	1102.2	1090.4	1057.3	1048.7	1031.4	1031.4
55°	873.4	857.7	832.5	808.1	794.8	772.0	768.8	750.8	751.5
57.5°	620.3	606.1	576.2	561.3	551.1	544.8	531.4	517.3	511.0
60°	428.4	416.6	400.1	385.2	371.8	368.7	356.1	342.0	338.8
62.5°	258.6	255.5	226.4	220.9	210.7	206.0	197.3	187.9	188.7
65°	139.9	119.5	109.3	103.0	100.6	88.0	81.0	79.4	83.3
67.5°	37.7	37.7	30.7	29.1	29.1	21.2	24.4	23.6	30.7
70°	33.0	23.6	20.4	16.5	18.9	11.0	20.4	16.5	15.7
72.5°	17.3	9.4	7.9	7.9	8.6	5.5	12.6	7.1	5.5
75°	7.1	4.7	3.1	1.6	3.9	3.9	4.7	1.6	4.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	2.4	1.6	0.0	0.0	0.0	4.7	0.0	0.0
87.5°	0.0	1.6	0.8	0.0	0.0	0.0	1.6	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)