

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: P248196

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B1759730 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12077.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

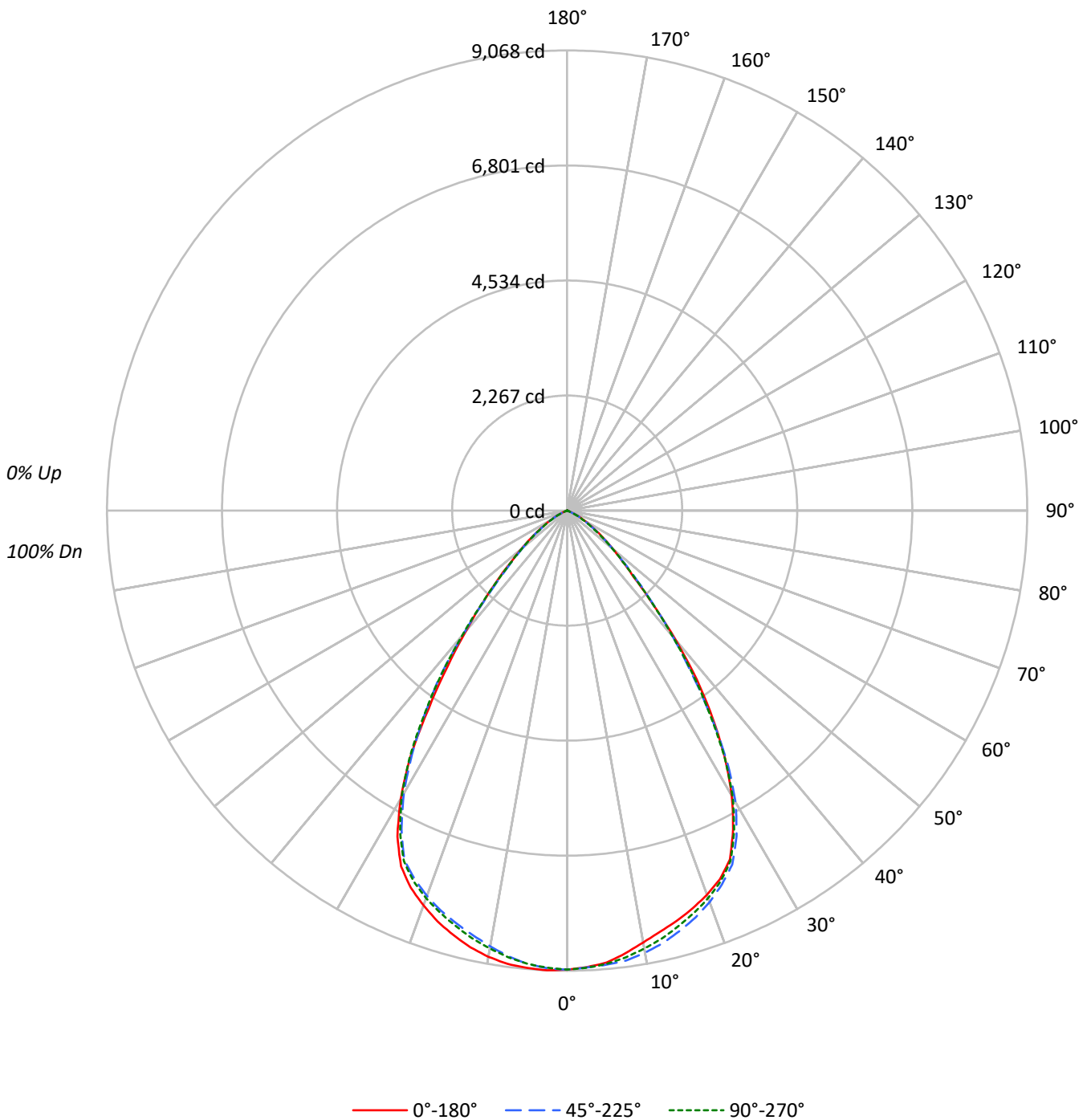
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	88	84	80	86	82	79	84	80	78	76	76	76	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63	63	63	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58	58	58	58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	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°	850.5	7.0
10°-20°	2396.0	19.8
20°-30°	3455.0	28.6
30°-40°	3034.3	25.1
40°-50°	1534.3	12.7
50°-60°	628.0	5.2
60°-70°	165.1	1.4
70°-80°	11.7	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°	6701.5	55.5
0°-40°	9735.8	80.6
0°-60°	11898.2	98.5
0°-90°	12077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12077.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9046	9046	9046	9046	9046	
5°	8942	8982	8966	8966	9048	843
15°	8366	8573	8478	8423	8660	2361
25°	7588	7696	7618	7591	7740	3428
35°	5003	4917	4902	4881	4757	3084
45°	1867	1954	1899	1850	1937	1541
55°	710	682	660	659	681	656
65°	179	159	142	141	153	183
75°	5	3	10	3	6	13
85°	2	2	2	1	2	3
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°	9045.5	9045.5	9045.5	9045.5	9045.5	9045.5	9045.5	9045.5	9045.5
2.5°	9003.9	9048.0	9008.9	9032.2	9016.4	8990.6	9026.4	9009.7	9068.0
5°	8941.5	8994.8	8982.3	9011.4	8966.5	8919.1	8966.5	8970.6	9048.0
7.5°	8799.3	8890.8	8943.2	8978.1	8879.2	8801.8	8858.4	8909.1	9008.9
10°	8640.5	8751.1	8845.9	8899.9	8762.7	8649.6	8717.0	8803.5	8929.1
12.5°	8494.1	8616.3	8728.6	8781.0	8636.3	8509.1	8573.1	8680.4	8815.1
15°	8366.0	8466.6	8573.1	8627.2	8478.3	8357.7	8423.4	8522.4	8660.4
17.5°	8219.6	8314.4	8408.4	8450.8	8312.8	8208.0	8267.9	8352.7	8489.9
20°	8055.8	8137.3	8208.8	8258.7	8126.5	8026.7	8080.7	8159.7	8278.7
22.5°	7863.7	7925.2	7971.8	8016.7	7909.4	7810.4	7857.0	7919.4	8045.0
25°	7587.5	7649.9	7696.5	7747.2	7618.3	7533.5	7590.9	7617.5	7739.7
27.5°	7081.9	7160.9	7230.7	7275.7	7128.4	7055.3	7070.2	7114.3	7244.0
30°	6489.7	6528.0	6634.4	6647.7	6523.0	6395.7	6436.5	6483.0	6559.6
32.5°	5786.1	5807.7	5869.3	5875.9	5782.8	5684.6	5685.5	5664.7	5742.0
35°	5002.6	4953.6	4917.0	4941.9	4902.0	4919.5	4881.2	4785.6	4757.3
37.5°	4193.4	4161.8	4001.3	3988.8	4081.9	4138.5	4101.1	3888.2	3873.2
40°	3317.6	3281.9	3222.0	3212.8	3225.3	3257.7	3188.7	3125.5	3106.4
42.5°	2482.6	2501.7	2520.9	2538.3	2502.6	2432.7	2429.4	2417.7	2462.6
45°	1867.2	1907.9	1954.5	1977.8	1898.8	1844.7	1850.5	1876.3	1937.0
47.5°	1476.3	1484.6	1502.0	1522.0	1475.4	1406.4	1424.7	1466.3	1492.9
50°	1172.7	1181.0	1176.0	1173.5	1151.1	1109.5	1135.3	1166.0	1175.2
52.5°	924.8	914.0	904.9	899.1	884.9	868.3	873.3	899.1	913.2
55°	710.3	701.9	682.0	673.7	660.4	656.2	658.7	678.7	681.2
57.5°	533.9	522.3	502.3	486.5	487.4	480.7	484.0	498.2	505.7
60°	401.7	394.2	359.3	361.8	350.1	348.5	356.0	364.3	367.6
62.5°	277.8	280.3	253.7	250.3	244.5	245.3	250.3	257.0	257.8
65°	178.8	168.0	158.9	152.2	142.2	137.2	140.6	158.9	153.0
67.5°	69.9	74.0	59.9	69.9	64.9	54.9	63.2	70.7	67.4
70°	38.3	39.1	32.4	30.8	32.4	29.9	34.1	38.3	29.1
72.5°	24.1	24.1	17.5	17.5	22.5	15.0	17.5	27.4	21.6
75°	5.0	5.8	3.3	1.7	10.0	5.0	3.3	10.0	5.8
77.5°	0.0	5.8	0.0	0.0	0.0	0.0	1.7	1.7	1.7
80°	0.0	0.0	0.0	2.5	0.0	0.0	0.0	1.7	1.7
82.5°	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0
85°	1.7	6.7	1.7	0.0	1.7	1.7	0.8	5.0	1.7
87.5°	10.8	5.0	0.8	5.0	4.2	5.0	5.8	5.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)