

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: P247943

Luminaire Tested: **LD8B150D010 ER8B150930 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B150930 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13434.1 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

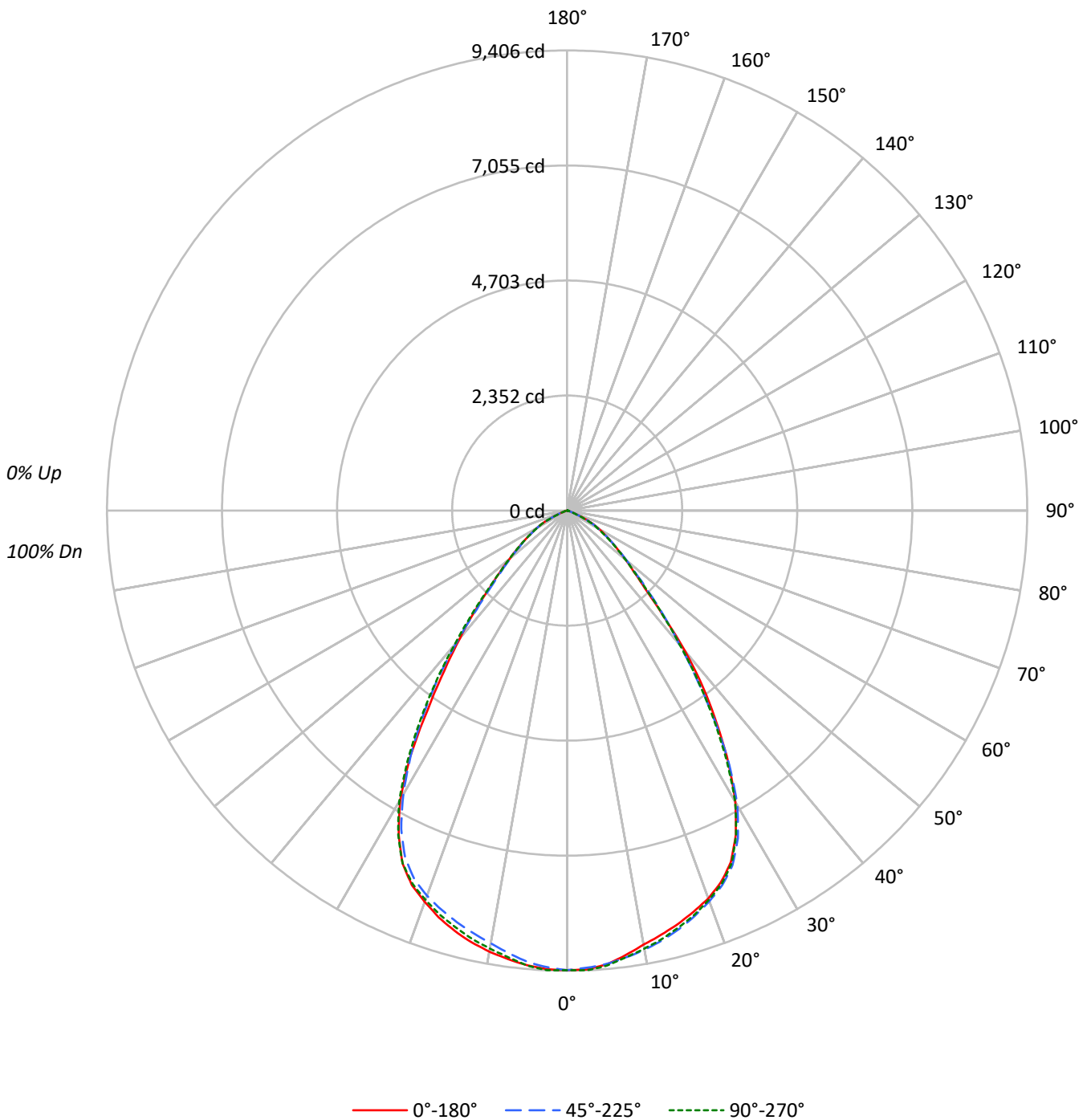
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

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°	879.9	6.5
10°-20°	2480.7	18.5
20°-30°	3596.5	26.8
30°-40°	3232.8	24.1
40°-50°	1821.7	13.6
50°-60°	970.6	7.2
60°-70°	387.9	2.9
70°-80°	51.7	0.4
80°-90°	12.2	0.1
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°	6957.1	51.8
0°-40°	10189.9	75.9
0°-60°	12982.3	96.6
0°-90°	13434.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13434.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9394	9394	9394	9394	9394	
5°	9310	9302	9336	9263	9331	878
15°	8748	8849	8818	8709	8891	2468
25°	7924	7998	7954	7831	7961	3597
35°	5352	5275	5232	5160	4970	3321
45°	2237	2358	2296	2188	2244	1838
55°	1088	1092	1068	1044	1060	992
65°	419	399	370	359	374	414
75°	33	42	40	40	33	49
85°	2	10	5	14	3	5
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°	9394.2	9394.2	9394.2	9394.2	9394.2	9394.2	9394.2	9394.2	9394.2
2.5°	9387.6	9367.7	9353.0	9381.0	9405.8	9338.0	9343.0	9372.8	9382.7
5°	9310.0	9291.9	9301.7	9324.8	9336.4	9251.4	9262.9	9313.3	9331.4
7.5°	9164.6	9178.6	9214.2	9243.9	9209.2	9109.4	9125.8	9212.5	9248.0
10°	9006.9	9040.0	9114.3	9148.9	9090.3	8962.3	8981.3	9097.7	9153.9
12.5°	8881.3	8917.8	8995.4	9021.8	8969.8	8831.8	8851.6	8972.3	9039.1
15°	8747.6	8780.7	8849.2	8870.7	8817.8	8690.7	8708.8	8824.4	8891.3
17.5°	8596.5	8625.4	8686.5	8706.4	8660.1	8525.4	8554.4	8661.7	8720.4
20°	8437.1	8457.7	8500.7	8512.3	8467.7	8366.1	8379.4	8471.8	8509.7
22.5°	8220.0	8246.4	8286.0	8298.4	8257.1	8145.6	8158.0	8248.9	8290.1
25°	7923.5	7962.2	7997.8	8013.5	7954.1	7806.2	7831.0	7908.7	7960.7
27.5°	7463.5	7494.9	7557.7	7559.4	7477.5	7323.9	7344.6	7444.6	7457.7
30°	6872.3	6901.1	6956.5	6944.0	6865.7	6683.2	6699.7	6797.1	6819.4
32.5°	6148.0	6158.8	6173.6	6169.5	6073.7	5987.8	5954.0	5965.5	5973.8
35°	5352.0	5370.9	5275.2	5223.2	5232.3	5239.7	5159.5	5040.7	4970.4
37.5°	4580.6	4489.8	4371.8	4331.3	4406.4	4431.2	4358.6	4181.0	4115.8
40°	3742.5	3661.5	3568.3	3575.7	3574.1	3591.3	3499.8	3434.5	3412.2
42.5°	2880.4	2881.2	2942.3	2900.1	2892.0	2771.3	2735.8	2772.2	2811.8
45°	2237.1	2311.4	2358.5	2346.0	2295.7	2187.5	2187.5	2251.1	2243.7
47.5°	1841.5	1867.9	1903.5	1901.0	1864.7	1785.4	1798.5	1842.4	1864.7
50°	1556.6	1568.2	1584.6	1570.6	1548.3	1498.8	1498.0	1528.6	1541.7
52.5°	1302.3	1308.9	1304.7	1297.3	1284.9	1258.5	1250.3	1275.8	1279.2
55°	1088.4	1100.8	1091.7	1071.0	1068.5	1044.7	1043.8	1064.5	1059.5
57.5°	906.7	894.3	881.9	864.6	862.2	854.7	862.9	866.3	861.3
60°	754.8	755.6	731.7	715.1	713.5	702.8	714.3	723.4	723.4
62.5°	607.8	604.4	589.6	564.9	569.0	564.9	569.8	571.5	564.0
65°	418.7	419.5	398.9	369.1	369.9	366.7	359.2	370.8	374.1
67.5°	223.0	221.3	205.6	194.9	190.8	192.4	200.7	203.1	194.0
70°	121.4	117.3	120.6	109.0	111.4	107.4	111.4	118.0	115.6
72.5°	61.9	66.0	59.4	54.5	61.1	60.3	70.2	64.5	57.8
75°	33.1	35.5	42.1	38.8	40.5	38.8	39.7	37.1	33.1
77.5°	24.0	26.5	30.6	29.7	28.9	27.2	30.6	33.9	27.2
80°	14.0	17.4	18.9	22.3	19.8	22.3	25.6	20.6	16.5
82.5°	9.1	14.0	14.0	14.9	21.5	14.0	23.1	20.6	16.5
85°	1.7	2.5	9.9	5.8	4.9	14.9	14.0	10.8	3.3
87.5°	0.0	5.8	13.2	6.6	10.8	9.9	14.0	14.9	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)