Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P247941

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBW0H**

Issue Date: 03/03/2020

Report Generated By E0454808 / USPTCWHP6056648

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P247941
	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:	LD8B175D010 ER8B1759727 8LBW0H
Description:	PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED DOWNLIGHT
	97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12789.0 lumens
Efficiency:	N/A
Efficacy:	72.2 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):	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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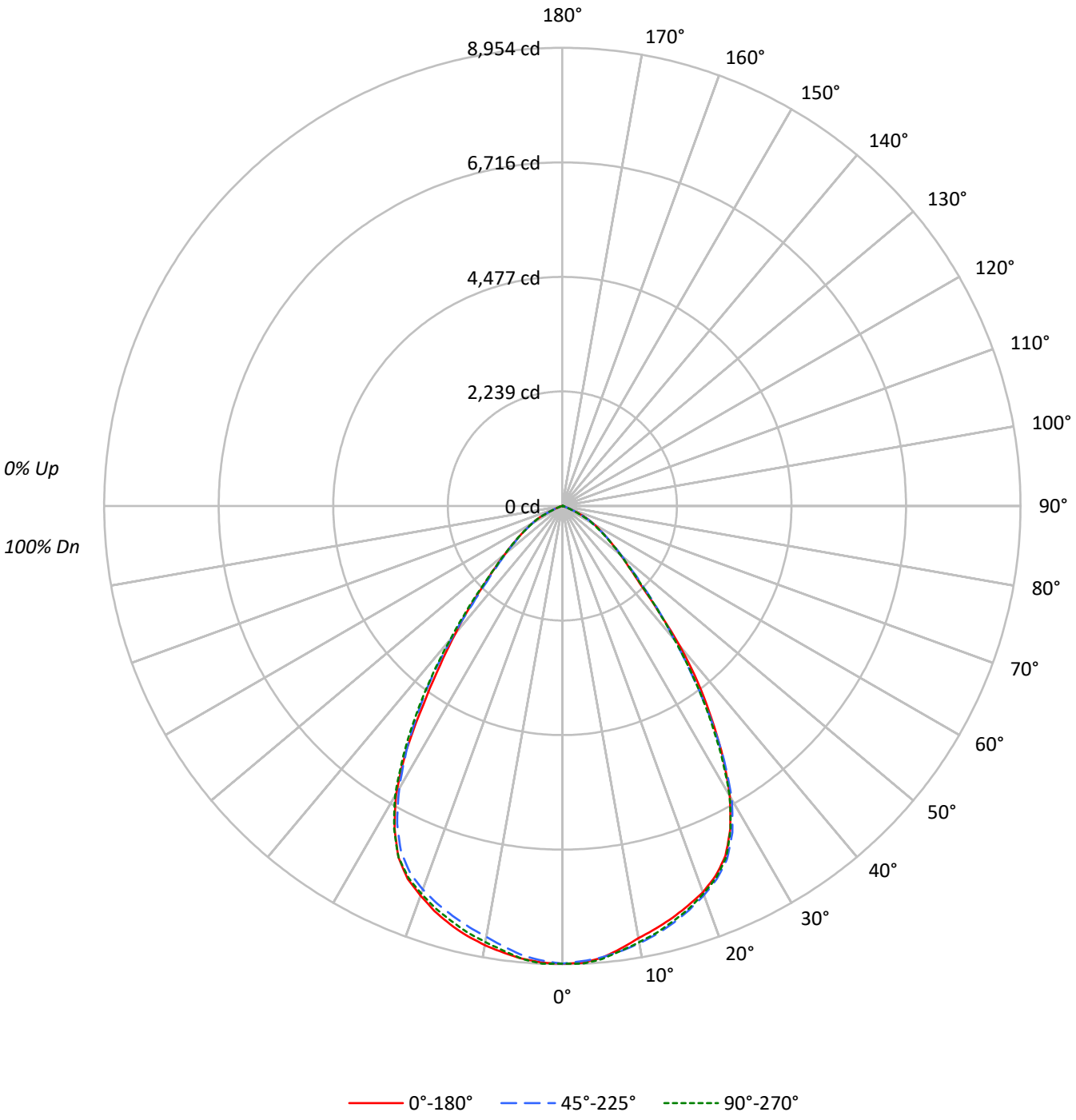
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	837.7	6.5
10°-20°	2361.6	18.5
20°-30°	3423.8	26.8
30°-40°	3077.6	24.1
40°-50°	1734.3	13.6
50°-60°	924.0	7.2
60°-70°	369.3	2.9
70°-80°	49.2	0.4
80°-90°	11.6	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°	6623.1	51.8
0°-40°	9700.6	75.9
0°-60°	12358.9	96.6
0°-90°	12789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12789.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8943	8943	8943	8943	8943	
5°	8863	8855	8888	8818	8883	836
15°	8328	8424	8394	8291	8464	2350
25°	7543	7614	7572	7455	7578	3424
35°	5095	5022	4981	4912	4732	3161
45°	2130	2245	2186	2082	2136	1749
55°	1036	1039	1017	994	1009	944
65°	399	380	352	342	356	395
75°	31	40	38	38	31	47
85°	2	9	5	13	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°	8943.1	8943.1	8943.1	8943.1	*8943.1*	8943.1	8943.1	8943.1	8943.1
2.5°	*8936.8*	*8918.0*	*8903.8*	*8930.6*	*8954.1*	*8889.7*	*8894.4*	*8922.7*	*8932.1*
5°	8862.9	8845.6	8855.1	8877.1	*8888.1*	8807.1	8818.1	8866.1	8883.4
7.5°	8724.6	8737.9	8771.8	8800.1	*8767.0*	8671.9	8687.6	8770.2	8804.0
10°	8574.4	8605.9	8676.6	8709.6	*8653.8*	8532.0	8550.1	8660.9	8714.4
12.5°	8454.9	8489.5	8563.4	8588.6	*8539.1*	8407.8	8426.6	8541.4	8605.1
15°	8327.6	8359.0	8424.3	8444.7	*8394.4*	8273.3	8290.6	8400.7	8464.4
17.5°	8183.7	8211.2	8269.4	8288.3	*8244.3*	8116.1	8143.6	8245.8	8301.6
20°	8032.0	8051.6	8092.5	8103.5	*8061.1*	7964.4	7977.0	8065.0	8101.2
22.5°	7825.2	7850.4	7888.1	7899.9	*7860.6*	7754.5	7766.3	7852.8	7892.1
25°	7543.0	7580.0	7613.8	7628.7	*7572.1*	7431.4	7455.0	7528.9	7578.4
27.5°	7105.1	7135.0	7194.8	7196.3	*7118.5*	6972.3	6991.9	7087.1	7099.6
30°	6542.3	6569.8	6622.4	6610.7	*6536.0*	6362.2	6378.0	6470.7	6491.9
32.5°	5852.8	5863.0	5877.2	5873.3	*5782.1*	5700.3	5668.1	5679.1	5686.9
35°	5095.0	5113.1	5021.9	4972.3	*4981.0*	4988.1	4911.8	4798.6	4731.8
37.5°	4360.7	4274.2	4161.8	4123.3	*4194.8*	4218.4	4149.2	3980.2	3918.1
40°	3562.8	3485.7	3396.9	3404.0	*3402.4*	3418.9	3331.7	3269.6	3248.3
42.5°	2742.1	2742.8	2801.0	2760.9	*2753.1*	2638.3	2604.5	2639.1	2676.8
45°	2129.7	2200.4	2245.2	2233.4	*2185.5*	2082.5	2082.5	2143.0	2135.9
47.5°	1753.1	1778.2	1812.1	1809.7	*1775.1*	1699.6	1712.2	1753.9	1775.1
50°	1481.9	1492.9	1508.6	1495.2	*1474.0*	1426.8	1426.1	1455.1	1467.7
52.5°	1239.7	1246.0	1242.1	1235.0	*1223.2*	1198.1	1190.2	1214.6	1217.7
55°	1036.1	1047.9	1039.3	1019.6	*1017.3*	994.5	993.7	1013.3	1008.6
57.5°	863.2	851.4	839.6	823.1	*820.7*	813.7	821.5	824.7	819.9
60°	718.5	719.3	696.5	680.8	*679.2*	669.0	680.0	688.7	688.7
62.5°	578.6	575.5	561.3	537.7	*541.7*	537.7	542.4	544.0	536.9
65°	398.6	399.4	379.7	351.4	*352.2*	349.0	342.0	353.0	356.1
67.5°	212.3	210.7	195.7	185.5	*181.6*	183.2	191.0	193.4	184.7
70°	115.6	111.6	114.8	103.8	*106.1*	102.2	106.1	112.4	110.1
72.5°	59.0	62.9	56.6	51.9	*58.2*	57.4	66.8	61.3	55.0
75°	31.4	33.8	40.1	36.9	*38.5*	36.9	37.7	35.4	31.4
77.5°	22.8	25.2	29.1	28.3	*27.5*	25.9	29.1	32.2	25.9
80°	13.4	16.5	18.1	21.2	*18.9*	21.2	24.4	19.7	15.7
82.5°	8.6	13.4	13.4	14.2	*20.4*	13.4	22.0	19.7	15.7
85°	1.6	2.4	9.4	5.5	*4.7*	14.2	13.4	10.2	3.1
87.5°	0.0	5.5	12.6	6.3	*10.2*	9.4	13.4	14.2	3.1
90°	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)