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: P247806

Luminaire Tested: **LD8B175D010 ER8B175830 8LBN0LI**

Issue Date: 03/03/2020

Report Generated By E0454808 / USPTCWHP6056648

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Test Information

Test Method:	LM-79-08
Report Number:	P247806
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	03/03/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	PORTFOLIO
Catalog Number:	LD8B175D010 ER8B175830 8LBN0LI
Description:	PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED DOWNLIGHT
	80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16292.0 lumens
Efficiency:	N/A
Efficacy:	91.9 lumens/watt
Spacing Criteria (0/90/45):	0.55 / 0.55 / 0.63
Luminous Opening:	Circular (Dia: 0.67' x H: 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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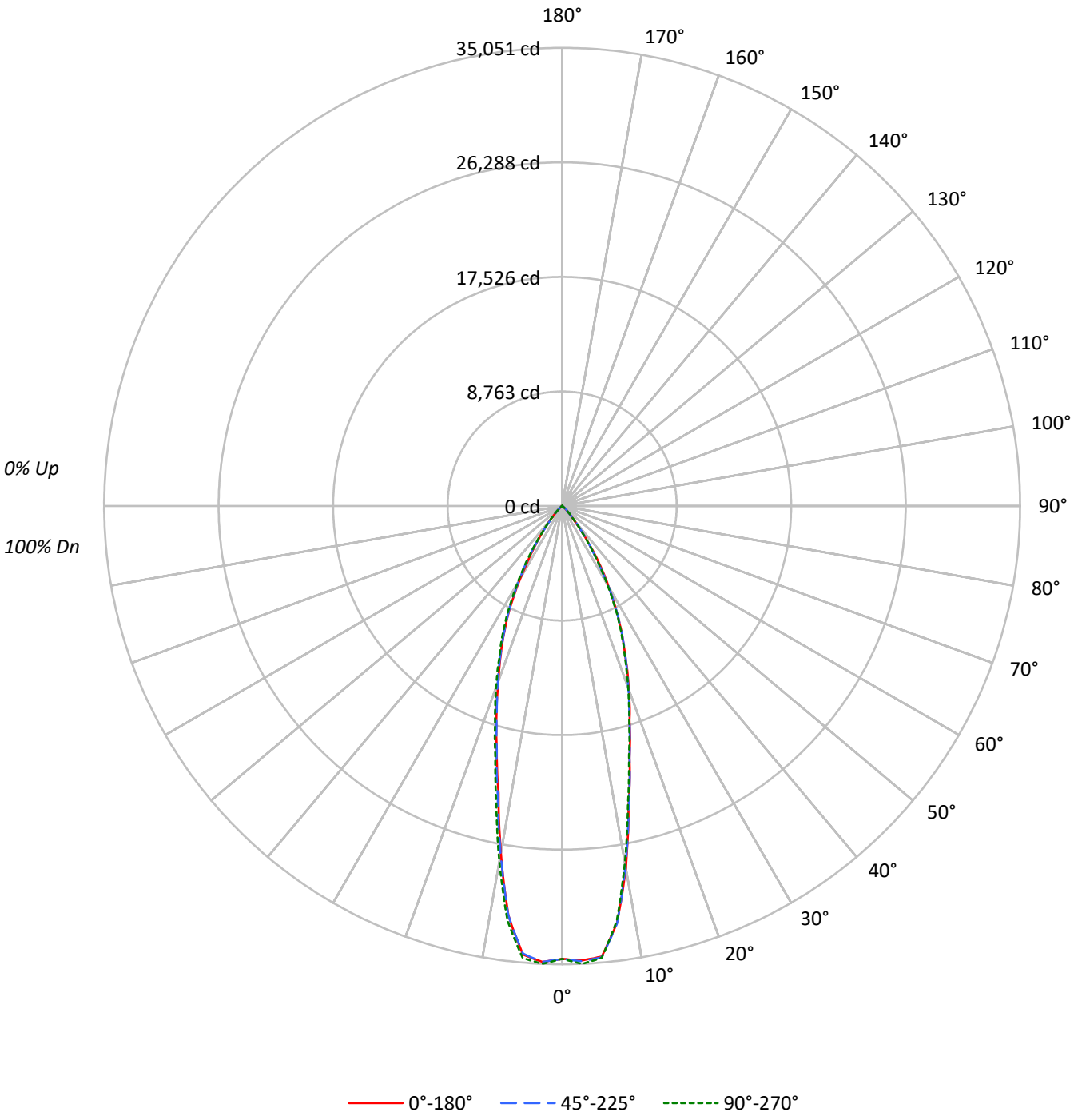
Luminous Intensity Polar Plot



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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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1068161	1068161	1068161
5°	1070997	1073820	1066189
10°	879410	865508	843956
15°	637211	630731	616209
20°	491580	484882	468885
25°	369134	364738	352585
30°	251893	244857	225722
35°	142389	136298	124775
40°	57293	59568	57338
45°	23627	24242	22441
50°	7186	7086	5157
55°	2043	1516	1048
60°	1610	1474	401
65°	715	1503	314
70°	388	784	0
75°	2204	1299	905
80°	1740	764	2113
85°	2300	4210	5767

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3061.8	18.8
10°-20°	5548.4	34.1
20°-30°	4834.5	29.7
30°-40°	2302.7	14.1
40°-50°	478.5	2.9
50°-60°	38.0	0.2
60°-70°	14.7	0.1
70°-80°	6.5	0.0
80°-90°	6.8	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°	13444.7	82.5
0°-40°	15747.4	96.7
0°-60°	16263.9	99.8
0°-90°	16292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16292.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34640	34640	34640	34640	34640	
5°	34600	34655	34691	34365	34444	###
15°	19960	19962	19757	19348	19302	5637
25°	10849	10838	10720	10398	10363	4932
35°	3782	3654	3621	3437	3315	2421
45°	542	599	556	498	515	479
55°	38	29	28	26	20	41
65°	10	16	21	6	4	14
75°	18	12	11	13	8	9
85°	6	6	12	8	16	6
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°	34639.7	34639.7	34639.7	34639.7	*34639.7*	34639.7	34639.7	34639.7	34639.7
2.5°	*34790.6*	*34797.1*	*34851.4*	*35006.6*	*35051.1*	*35016.4*	*34899.1*	*34856.8*	*34899.1*
5°	34599.5	34576.7	34654.9	34770.0	*34690.7*	34548.5	34365.0	34322.7	34444.2
7.5°	32150.2	32135.0	32208.8	32200.2	*31990.6*	31722.5	31569.4	31448.9	31553.1
10°	28085.4	27949.7	27900.9	27986.6	*27641.4*	27271.2	27050.8	27132.2	26953.1
12.5°	23509.3	23490.8	23577.7	23472.4	*23272.6*	23045.7	22775.4	22629.9	22499.6
15°	19960.2	20009.1	19962.4	19919.0	*19757.2*	19586.7	19347.9	19246.9	19302.3
17.5°	17174.4	17160.2	17111.4	17184.1	*17059.3*	16815.0	16605.5	16641.3	16702.1
20°	14980.2	14920.5	14805.4	14835.8	*14776.1*	14586.1	14395.0	14266.9	14288.6
22.5°	12718.7	12770.8	12756.7	12666.6	*12573.2*	12434.3	12340.9	12173.7	12251.9
25°	10849.2	10857.9	10838.3	10825.3	*10720.0*	10586.5	10397.5	10357.4	10362.8
27.5°	8936.2	8977.5	8961.2	8905.8	*8799.4*	8687.6	8570.3	8478.1	8469.4
30°	7074.3	7132.9	7016.7	6937.5	*6876.7*	6857.1	6660.6	6522.8	6339.3
32.5°	5474.0	5387.1	5016.9	5018.0	*5136.3*	5183.0	4995.2	4682.5	4631.5
35°	3782.5	3767.3	3654.4	3619.7	*3620.7*	3575.1	3437.3	3315.7	3314.6
37.5°	2371.1	2427.6	2490.5	2476.4	*2337.5*	2196.3	2130.1	2201.8	2222.4
40°	1423.3	1497.2	1573.1	1581.8	*1479.8*	1316.9	1296.3	1362.5	1424.4
42.5°	891.3	922.8	973.9	983.6	*910.9*	851.2	813.2	860.9	860.9
45°	541.8	571.1	599.3	601.5	*555.9*	505.9	498.3	516.8	514.6
47.5°	319.2	320.3	331.1	323.5	*308.3*	284.4	274.7	284.4	286.6
50°	149.8	146.6	152.0	166.1	*147.7*	124.9	127.0	119.4	107.5
52.5°	35.8	32.6	39.1	42.3	*41.3*	43.4	41.3	41.3	31.5
55°	38.0	23.9	29.3	30.4	*28.2*	30.4	26.1	17.4	19.5
57.5°	26.1	27.1	27.1	30.4	*26.1*	32.6	27.1	19.5	21.7
60°	26.1	18.5	17.4	29.3	*23.9*	16.3	18.5	25.0	6.5
62.5°	19.5	18.5	20.6	29.3	*20.6*	23.9	18.5	29.3	19.5
65°	9.8	16.3	16.3	16.3	*20.6*	18.5	6.5	13.0	4.3
67.5°	14.1	7.6	6.5	14.1	*17.4*	11.9	5.4	5.4	9.8
70°	4.3	6.5	3.3	7.6	*8.7*	7.6	5.4	1.1	0.0
72.5°	7.6	3.3	7.6	6.5	*10.9*	7.6	6.5	5.4	4.3
75°	18.5	14.1	11.9	13.0	*10.9*	6.5	13.0	13.0	7.6
77.5°	0.0	0.0	2.2	0.0	*0.0*	0.0	1.1	0.0	0.0
80°	9.8	7.6	7.6	7.6	*4.3*	6.5	3.3	1.1	11.9
82.5°	9.8	11.9	11.9	5.4	*14.1*	8.7	7.6	2.2	11.9
85°	6.5	11.9	6.5	5.4	*11.9*	9.8	7.6	3.3	16.3
87.5°	0.0	6.5	6.5	4.3	*6.5*	2.2	5.4	3.3	0.0
90°	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)