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: FAIL-SAFE

Report Number: P412234

Luminaire Tested: **MRI-2ASR-8-500-L950-HEO**

Issue Date: 10/5/2020

Report Generated By E9970913 / USPTCWHP6095502

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Test Information

Test Method:	LM-79-08
Report Number:	P412234
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-1)
Test Lab:	INNOVATION CENTER
Issue Date:	10/5/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	FAIL-SAFE
Catalog Number:	MRI-2ASR-8-500-L950-HEO
Description:	8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source:	(336) 5000K CCT, 90 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7255.0 lumens
Efficiency:	N/A
Efficacy:	83.1 lumens/watt
Spacing Criteria (0/90/45):	1.23 / 1.17 / 1.32
Luminous Opening:	Rectangular (W 0.17' x L: 8' x H: 0')
CIE Type:	Direct

Input Watts (W):	87.3
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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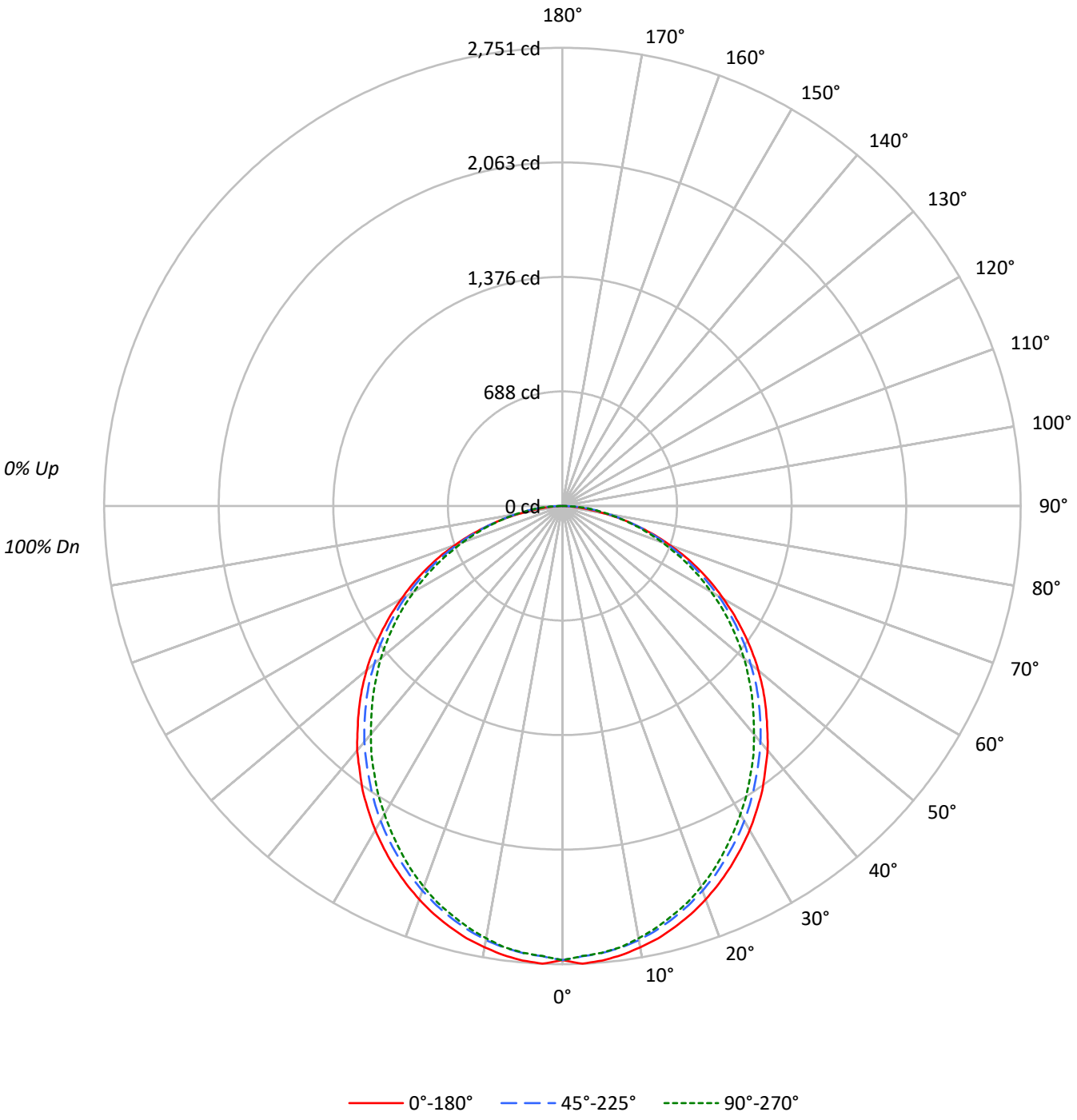
Luminous Intensity Polar Plot



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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	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22011	22011	22011
5°	22199	21837	21823
10°	22054	21695	21604
15°	21860	21429	21278
20°	21599	21118	20912
25°	21284	20748	20426
30°	20952	20358	19918
35°	20591	19897	19396
40°	20197	19491	18839
45°	19721	19024	18357
50°	19286	18509	17872
55°	18710	18044	17305
60°	18019	17465	16617
65°	17328	16688	15948
70°	16194	15708	15019
75°	14482	14510	13999
80°	11911	13031	12910
85°	8040	12421	12819

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	3.5
10°-20°	726.8	10.0
20°-30°	1077.4	14.9
30°-40°	1267.1	17.5
40°-50°	1287.0	17.7
50°-60°	1144.9	15.8
60°-70°	863.4	11.9
70°-80°	490.6	6.8
80°-90°	140.5	1.9
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°	2061.4	28.4
0°-40°	3328.5	45.9
0°-60°	5760.5	79.4
0°-90°	7255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2726	2726	2726	2726	2726	
5°	2739	2720	2695	2714	2693	260
15°	2616	2595	2564	2573	2546	738
25°	2389	2364	2329	2321	2293	1101
35°	2089	2061	2019	1993	1968	1306
45°	1727	1706	1666	1633	1608	1333
55°	1329	1316	1282	1246	1230	1188
65°	907	901	874	846	835	896
75°	464	471	465	452	449	495
85°	87	120	134	134	138	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2726.5*	2726.5	2726.5	2726.5	2726.5
2.5°	*2750.6*	*2731.7*	*2706.7*	*2727.4*	*2705.0*
5°	*2739.4*	2720.5	2694.7	2714.5	2693.0
7.5°	*2719.6*	2700.7	2674.9	2693.0	2672.3
10°	*2690.4*	2673.2	2646.5	2661.1	2635.4
12.5°	*2658.6*	2636.2	2607.8	2620.7	2594.9
15°	*2615.6*	2594.9	2564.0	2573.4	2545.9
17.5°	*2568.3*	2544.2	2514.1	2519.3	2496.1
20°	*2514.1*	2490.0	2458.2	2459.9	2434.2
22.5°	*2453.9*	2431.6	2397.2	2391.2	2367.1
25°	*2389.4*	2364.5	2329.3	2320.7	2293.1
27.5°	*2319.8*	2296.6	2258.8	2245.0	2215.8
30°	*2247.6*	2220.1	2183.9	2163.3	2136.7
32.5°	*2168.5*	2143.5	2103.1	2077.3	2056.7
35°	*2089.4*	2061.0	2018.9	1993.1	1968.1
37.5°	*1999.9*	1973.3	1933.7	1907.9	1883.0
40°	*1916.5*	1887.3	1849.5	1817.7	1787.6
42.5°	*1820.2*	1799.6	1758.3	1726.5	1697.3
45°	*1727.4*	1705.9	1666.3	1632.8	1607.9
47.5°	*1633.7*	1612.2	1574.3	1538.2	1514.1
50°	*1535.6*	1512.4	1473.7	1441.9	1423.0
52.5°	*1433.3*	1417.0	1382.6	1346.5	1325.0
55°	*1329.3*	1315.5	1282.0	1245.9	1229.5
57.5°	*1224.4*	1213.2	1182.3	1147.9	1131.5
60°	*1116.0*	1110.9	1081.7	1049.0	1029.2
62.5°	*1013.7*	1006.0	975.9	951.8	933.8
65°	*907.1*	901.1	873.6	846.1	834.9
67.5°	*799.6*	792.8	767.0	748.0	730.8
70°	*686.1*	686.1	665.5	647.4	636.3
72.5°	*578.7*	579.5	565.8	546.8	541.7
75°	*464.3*	471.2	465.2	452.3	448.8
77.5°	*362.8*	368.9	369.7	365.4	359.4
80°	*256.2*	273.4	280.3	279.4	277.7
82.5°	*164.2*	191.7	204.6	203.8	205.5
85°	*86.8*	119.5	134.1	134.1	138.4
87.5°	*30.1*	61.0	65.3	60.2	57.6
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)