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: P412200

Luminaire Tested: **MRI-2ASR-8-1000-L835-HEO**

Issue Date: 10/5/2020

Report Generated By E9970913 / USPTCWHP6095502

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Test Information

Test Method:	LM-79-08
Report Number:	P412200
	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-8-1000-L835-HEO
Description:	8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source:	(336) 3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9262.0 lumens
Efficiency:	N/A
Efficacy:	91.3 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):	101.4
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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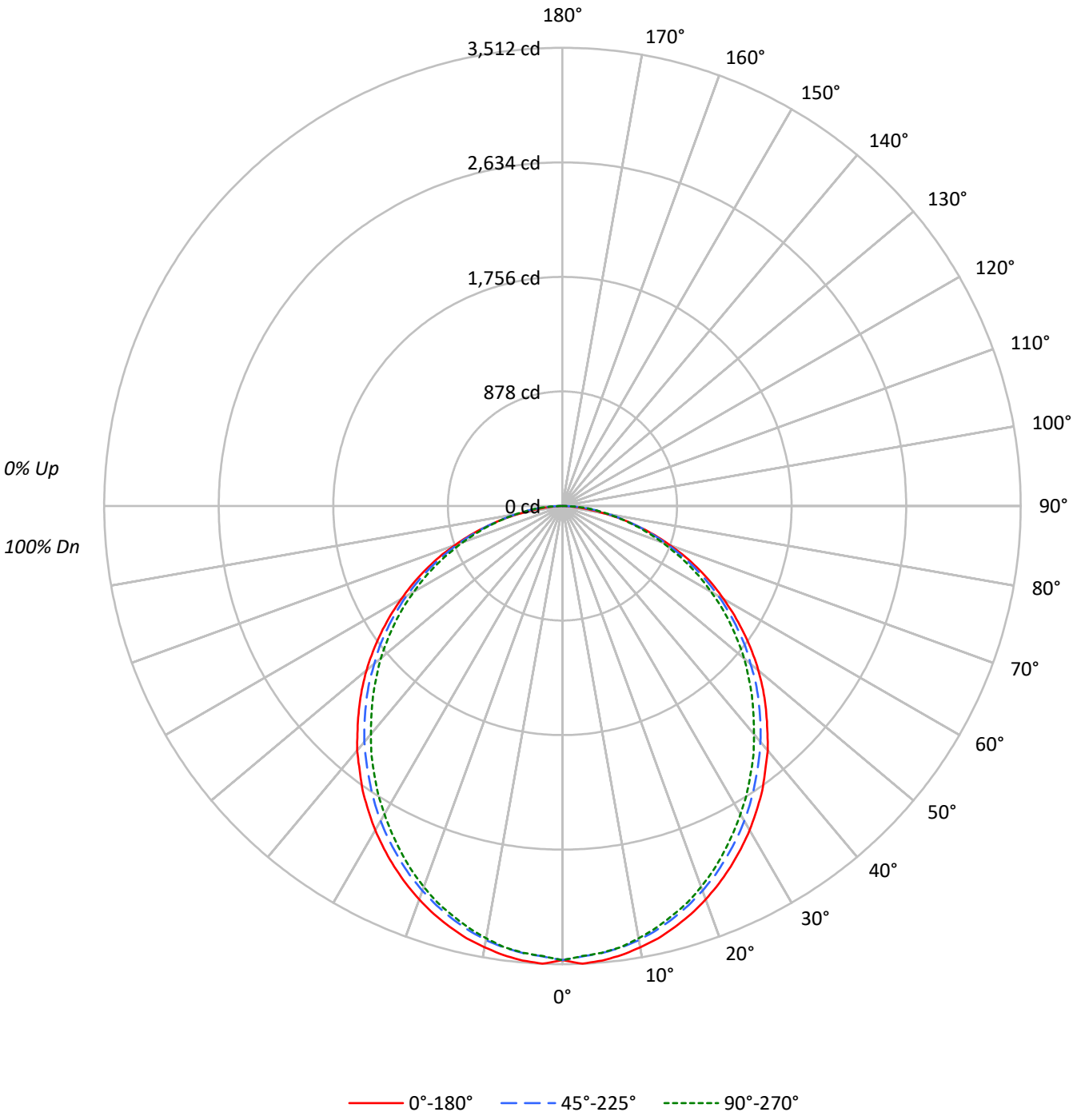
Luminous Intensity Polar Plot



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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°	28099	28099	28099
5°	28340	27878	27860
10°	28155	27697	27580
15°	27907	27357	27164
20°	27574	26961	26697
25°	27172	26487	26077
30°	26747	25990	25427
35°	26288	25401	24762
40°	25784	24882	24050
45°	25176	24287	23435
50°	24622	23629	22816
55°	23885	23035	22093
60°	23005	22296	21214
65°	22122	21303	20359
70°	20674	20054	19173
75°	18487	18521	17873
80°	15207	16634	16485
85°	10272	15858	16367

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	3.5
10°-20°	927.8	10.0
20°-30°	1375.5	14.9
30°-40°	1617.6	17.5
40°-50°	1643.1	17.7
50°-60°	1461.7	15.8
60°-70°	1102.3	11.9
70°-80°	626.3	6.8
80°-90°	179.4	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°	2631.7	28.4
0°-40°	4249.3	45.9
0°-60°	7354.0	79.4
0°-90°	9262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3481	3481	3481	3481	3481	
5°	3497	3473	3440	3465	3438	332
15°	3339	3313	3273	3285	3250	942
25°	3050	3019	2974	2963	2928	1405
35°	2667	2631	2577	2544	2513	1667
45°	2205	2178	2127	2084	2053	1702
55°	1697	1679	1637	1590	1570	1517
65°	1158	1150	1115	1080	1066	1144
75°	593	602	594	577	573	632
85°	111	153	171	171	177	142
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*3480.7*	3480.7	3480.7	3480.7	3480.7
2.5°	*3511.5*	*3487.3*	*3455.5*	*3481.8*	*3453.3*
5°	*3497.2*	3473.1	3440.1	3465.4	3437.9
7.5°	*3472.0*	3447.8	3414.9	3437.9	3411.6
10°	*3434.6*	3412.7	3378.7	3397.3	3364.4
12.5°	*3394.0*	3365.5	3329.3	3345.7	3312.8
15°	*3339.1*	3312.8	3273.3	3285.4	3250.2
17.5°	*3278.8*	3248.0	3209.6	3216.2	3186.6
20°	*3209.6*	3178.9	3138.3	3140.5	3107.5
22.5°	*3132.8*	3104.2	3060.3	3052.6	3021.9
25°	*3050.5*	3018.6	2973.6	2962.6	2927.5
27.5°	*2961.5*	2931.9	2883.6	2866.0	2828.7
30°	*2869.3*	2834.2	2788.1	2761.8	2727.7
32.5°	*2768.3*	2736.5	2684.9	2652.0	2625.6
35°	*2667.4*	2631.1	2577.4	2544.4	2512.6
37.5°	*2553.2*	2519.2	2468.7	2435.8	2403.9
40°	*2446.7*	2409.4	2361.1	2320.5	2282.1
42.5°	*2323.8*	2297.4	2244.8	2204.1	2166.8
45°	*2205.2*	2177.8	2127.3	2084.5	2052.7
47.5°	*2085.6*	2058.1	2009.9	1963.7	1933.0
50°	*1960.5*	1930.8	1881.4	1840.8	1816.7
52.5°	*1829.8*	1809.0	1765.1	1719.0	1691.5
55°	*1697.0*	1679.4	1636.6	1590.5	1569.7
57.5°	*1563.1*	1548.8	1509.3	1465.4	1444.5
60°	*1424.8*	1418.2	1380.9	1339.2	1313.9
62.5°	*1294.2*	1284.3	1245.9	1215.1	1192.1
65°	*1158.1*	1150.4	1115.2	1080.1	1065.8
67.5°	*1020.8*	1012.1	979.1	955.0	933.0
70°	*875.9*	875.9	849.6	826.6	812.3
72.5°	*738.7*	739.8	722.3	698.1	691.5
75°	*592.7*	601.5	593.8	577.4	573.0
77.5°	*463.2*	470.9	472.0	466.5	458.8
80°	*327.1*	349.1	357.8	356.7	354.6
82.5°	*209.7*	244.8	261.2	260.2	262.3
85°	*110.9*	152.6	171.2	171.2	176.7
87.5°	*38.4*	77.9	83.4	76.8	73.5
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)