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

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P563632

Luminaire Tested: FSR-24-4-LD4-4HI-35-UNV-80-84-EDD-90

Issue Date: 7/20/2021

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P563632
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-5)
Test Lab:	INNOVATION CENTER
Issue Date:	7/20/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	FAIL-SAFE
Catalog Number:	FSR-24-4-LD4-4HI-35-UNV-80-84-EDD-90
Description:	2X4 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONM SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16021.0 lumens
Efficiency:	N/A
Efficacy:	92.7 lumens/watt
Spacing Criteria (0/90/45):	1.1 / 1 / 1.15
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	172.8
Input Voltage (V):	
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:	24 FT

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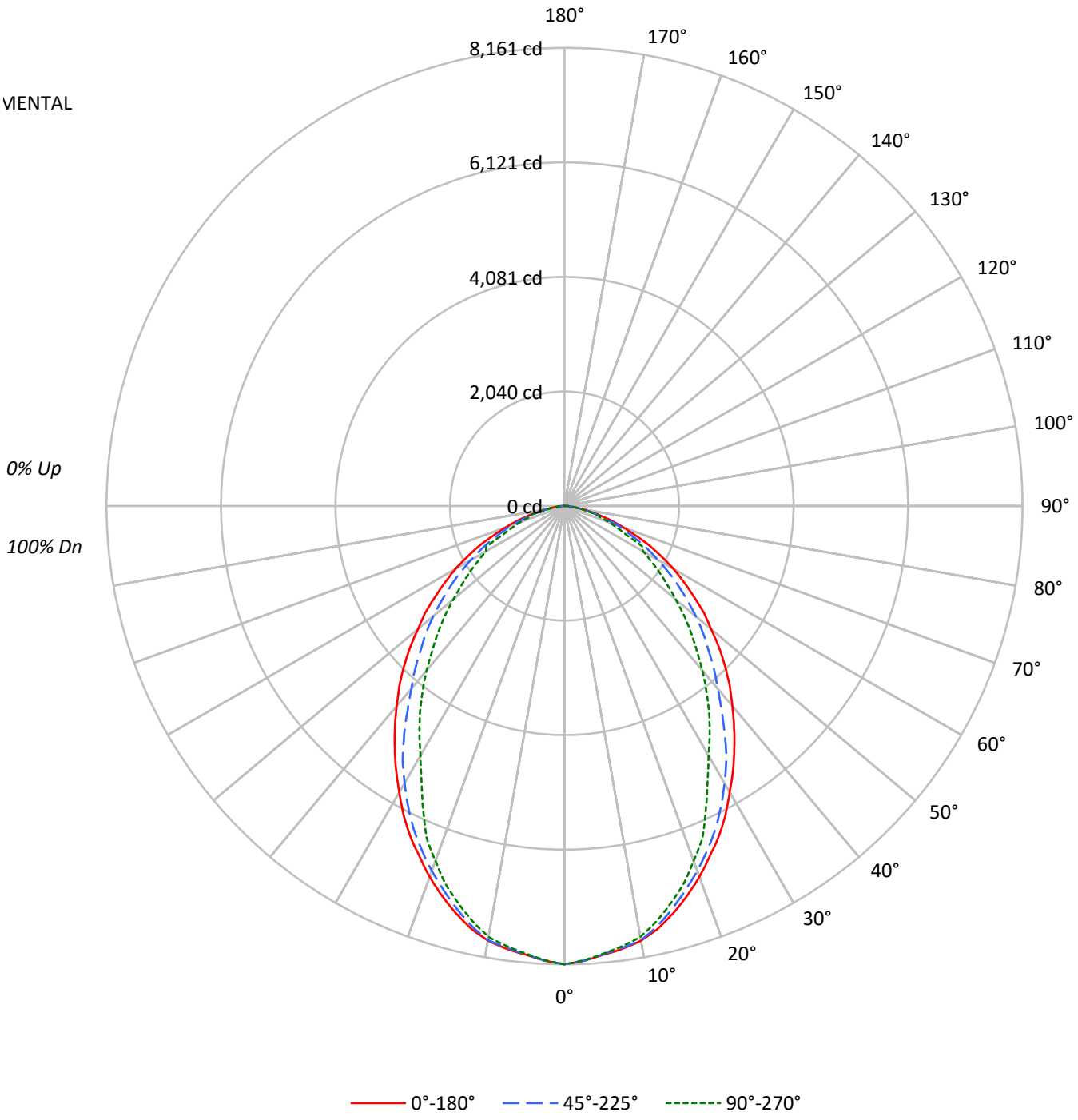
Luminous Intensity Polar Plot



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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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	46	42	51	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10980	10980	10980
5°	10831	10818	10806
10°	10737	10724	10647
15°	10448	10343	10198
20°	10064	9902	9632
25°	9650	9440	8852
30°	9147	8853	7974
35°	8663	8182	7376
40°	8169	7457	6711
45°	7701	6894	6068
50°	7129	6399	5411
55°	6595	5799	4847
60°	6042	5179	4341
65°	5316	4535	3845
70°	4380	3971	3266
75°	3483	3041	3188
80°	2339	2193	2047
85°	1456	1748	2039

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7701 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.7	4.7
10°-20°	2084.8	13.0
20°-30°	2886.3	18.0
30°-40°	3077.7	19.2
40°-50°	2807.7	17.5
50°-60°	2199.6	13.7
60°-70°	1433.6	8.9
70°-80°	635.1	4.0
80°-90°	136.4	0.9
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°	5730.8	35.8
0°-40°	8808.5	55.0
0°-60°	13815.9	86.2
0°-90°	16021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8161	8161	8161	8161	8161	
5°	8019	8010	8010	8000	8000	761
15°	7500	7500	7425	7350	7321	2109
25°	6500	6463	6359	6132	5963	2984
35°	5274	5236	4981	4604	4491	3297
45°	4047	3962	3623	3321	3189	3118
55°	2812	2727	2472	2179	2066	2522
65°	1670	1576	1425	1453	1208	1646
75°	670	623	585	557	613	718
85°	94	104	113	123	132	131
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*8160.9*	*8160.9*	*8160.9*	*8160.9*	*8160.9*
2.5°	*8104.3*	8104.3	8104.3	8094.8	8094.8
5°	*8019.4*	8009.9	8009.9	8000.5	8000.5
7.5°	*7953.3*	7943.9	7934.5	7925.0	7906.2
10°	*7859.0*	7859.0	7849.5	7802.4	7792.9
12.5°	*7708.0*	7698.6	7660.9	7594.8	7575.9
15°	*7500.5*	7500.5	7425.0	7349.5	7321.2
17.5°	*7274.0*	7264.6	7170.3	7094.8	7057.0
20°	*7028.7*	7009.9	6915.5	6792.9	6726.8
22.5°	*6755.1*	6755.1	6641.9	6481.5	6415.5
25°	*6500.4*	6462.7	6358.9	6132.5	5962.6
27.5°	*6207.9*	6151.3	6038.1	5717.3	5519.2
30°	*5887.2*	5858.9	5698.5	5283.3	5132.4
32.5°	*5585.3*	5538.1	5368.3	4934.3	4811.6
35°	*5273.9*	5236.2	4981.4	4604.1	4490.8
37.5°	*4962.6*	4915.4	4594.6	4292.7	4151.2
40°	*4651.2*	4594.6	4245.5	3971.9	3821.0
42.5°	*4358.8*	4283.3	3943.6	3651.2	3481.3
45°	*4047.4*	3962.5	3622.9	3321.0	3188.9
47.5°	*3736.1*	3660.6	3349.3	3037.9	2887.0
50°	*3405.9*	3339.8	3056.8	2745.5	2585.1
52.5°	*3132.3*	3028.5	2754.9	2443.5	2311.5
55°	*2811.5*	2726.6	2471.9	2179.4	2066.2
57.5°	*2519.0*	2434.1	2198.2	1924.6	1830.3
60°	*2245.4*	2122.8	1924.6	1688.8	1613.3
62.5°	*1943.5*	1849.2	1679.3	1481.2	1575.6
65°	*1669.9*	1575.6	1424.6	1452.9	1207.6
67.5°	*1368.0*	1320.8	1188.8	1056.7	1018.9
70°	*1113.3*	1056.7	1009.5	868.0	830.2
72.5°	*886.8*	830.2	764.2	688.7	660.4
75°	*669.9*	622.7	584.9	556.6	613.2
77.5°	*462.3*	443.4	415.1	386.8	377.4
80°	*301.9*	292.5	283.0	273.6	264.2
82.5°	*179.3*	179.3	179.3	179.3	179.3
85°	*94.3*	103.8	113.2	122.6	132.1
87.5°	*56.6*	56.6	66.0	75.5	84.9
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)