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: P562926

Luminaire Tested: FSR-24-4-LD4-2STD-35-UNV-93-97-EDD-90

Issue Date: 7/20/2021

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P562926
	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-LD4-2STD-35-UNV-93-97-EDD-90
Description:	2X4 FSR TROFFER WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPER GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6254.0 lumens
Efficiency:	N/A
Efficacy:	93.9 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):	66.6
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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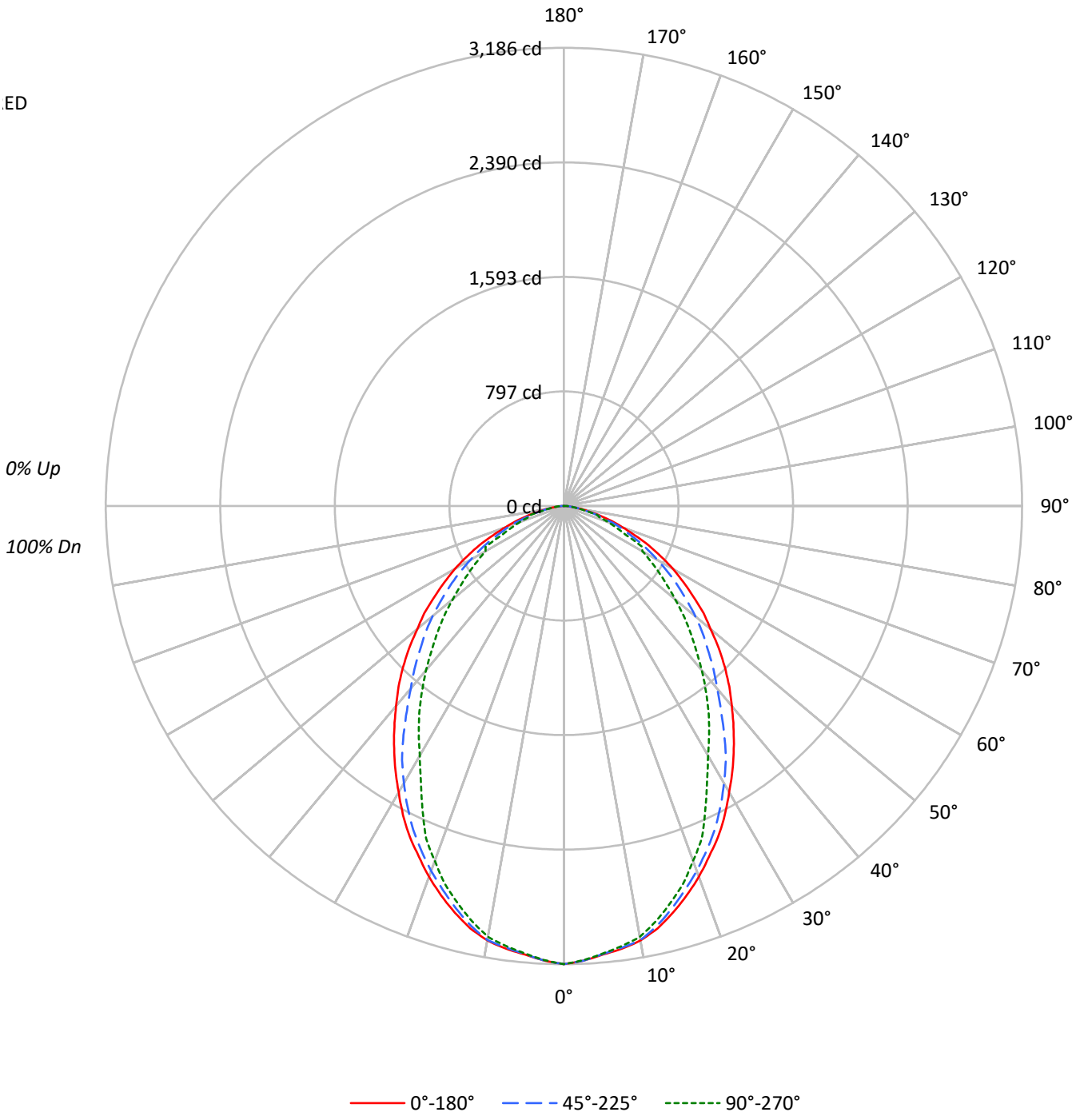
Luminous Intensity Polar Plot



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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°	4286	4286	4286
5°	4228	4223	4218
10°	4192	4186	4156
15°	4078	4037	3981
20°	3929	3865	3760
25°	3767	3685	3456
30°	3570	3456	3113
35°	3381	3194	2880
40°	3189	2911	2620
45°	3006	2691	2369
50°	2783	2498	2112
55°	2575	2263	1892
60°	2359	2022	1695
65°	2075	1770	1501
70°	1710	1550	1275
75°	1359	1187	1245
80°	914	856	799
85°	568	682	797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.5	4.7
10°-20°	813.8	13.0
20°-30°	1126.7	18.0
30°-40°	1201.4	19.2
40°-50°	1096.0	17.5
50°-60°	858.7	13.7
60°-70°	559.6	8.9
70°-80°	247.9	4.0
80°-90°	53.2	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°	2237.1	35.8
0°-40°	3438.5	55.0
0°-60°	5393.2	86.2
0°-90°	6254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3186	3186	3186	3186	3186	
5°	3130	3127	3127	3123	3123	297
15°	2928	2928	2898	2869	2858	823
25°	2538	2523	2482	2394	2328	1165
35°	2059	2044	1945	1797	1753	1287
45°	1580	1547	1414	1296	1245	1217
55°	1098	1064	965	851	807	984
65°	652	615	556	567	471	642
75°	262	243	228	217	239	280
85°	37	40	44	48	52	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*3185.7*	*3185.7*	*3185.7*	*3185.7*	*3185.7*
2.5°	*3163.6*	3163.6	3163.6	3159.9	3159.9
5°	*3130.5*	3126.8	3126.8	3123.1	3123.1
7.5°	*3104.7*	3101.0	3097.3	3093.6	3086.3
10°	*3067.9*	3067.9	3064.2	3045.8	3042.1
12.5°	*3008.9*	3005.2	2990.5	2964.7	2957.4
15°	*2927.9*	2927.9	2898.4	2869.0	2857.9
17.5°	*2839.5*	2835.8	2799.0	2769.5	2754.8
20°	*2743.8*	2736.4	2699.6	2651.7	2625.9
22.5°	*2637.0*	2637.0	2592.8	2530.1	2504.4
25°	*2537.5*	2522.8	2482.3	2393.9	2327.6
27.5°	*2423.3*	2401.2	2357.1	2231.8	2154.5
30°	*2298.1*	2287.1	2224.5	2062.4	2003.5
32.5°	*2180.3*	2161.9	2095.6	1926.2	1878.3
35°	*2058.7*	2044.0	1944.6	1797.3	1753.1
37.5°	*1937.2*	1918.8	1793.6	1675.7	1620.5
40°	*1815.7*	1793.6	1657.3	1550.5	1491.6
42.5°	*1701.5*	1672.0	1539.5	1425.3	1359.0
45°	*1580.0*	1546.8	1414.2	1296.4	1244.8
47.5°	*1458.4*	1429.0	1307.4	1185.9	1127.0
50°	*1329.5*	1303.7	1193.3	1071.7	1009.1
52.5°	*1222.7*	1182.2	1075.4	953.9	902.3
55°	*1097.5*	1064.4	964.9	850.7	806.6
57.5°	*983.3*	950.2	858.1	751.3	714.5
60°	*876.5*	828.7	751.3	659.2	629.8
62.5°	*758.7*	721.8	655.6	578.2	615.0
65°	*651.9*	615.0	556.1	567.2	471.4
67.5°	*534.0*	515.6	464.0	412.5	397.8
70°	*434.6*	412.5	394.1	338.8	324.1
72.5°	*346.2*	324.1	298.3	268.9	257.8
75°	*261.5*	243.1	228.3	217.3	239.4
77.5°	*180.5*	173.1	162.0	151.0	147.3
80°	*117.9*	114.2	110.5	106.8	103.1
82.5°	*70.0*	70.0	70.0	70.0	70.0
85°	*36.8*	40.5	44.2	47.9	51.6
87.5°	*22.1*	22.1	25.8	29.5	33.1
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)