

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: METALUX

Report Number: P290853

Luminaire Tested: **14GR-LD5-20-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-F125-UNV-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1892.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

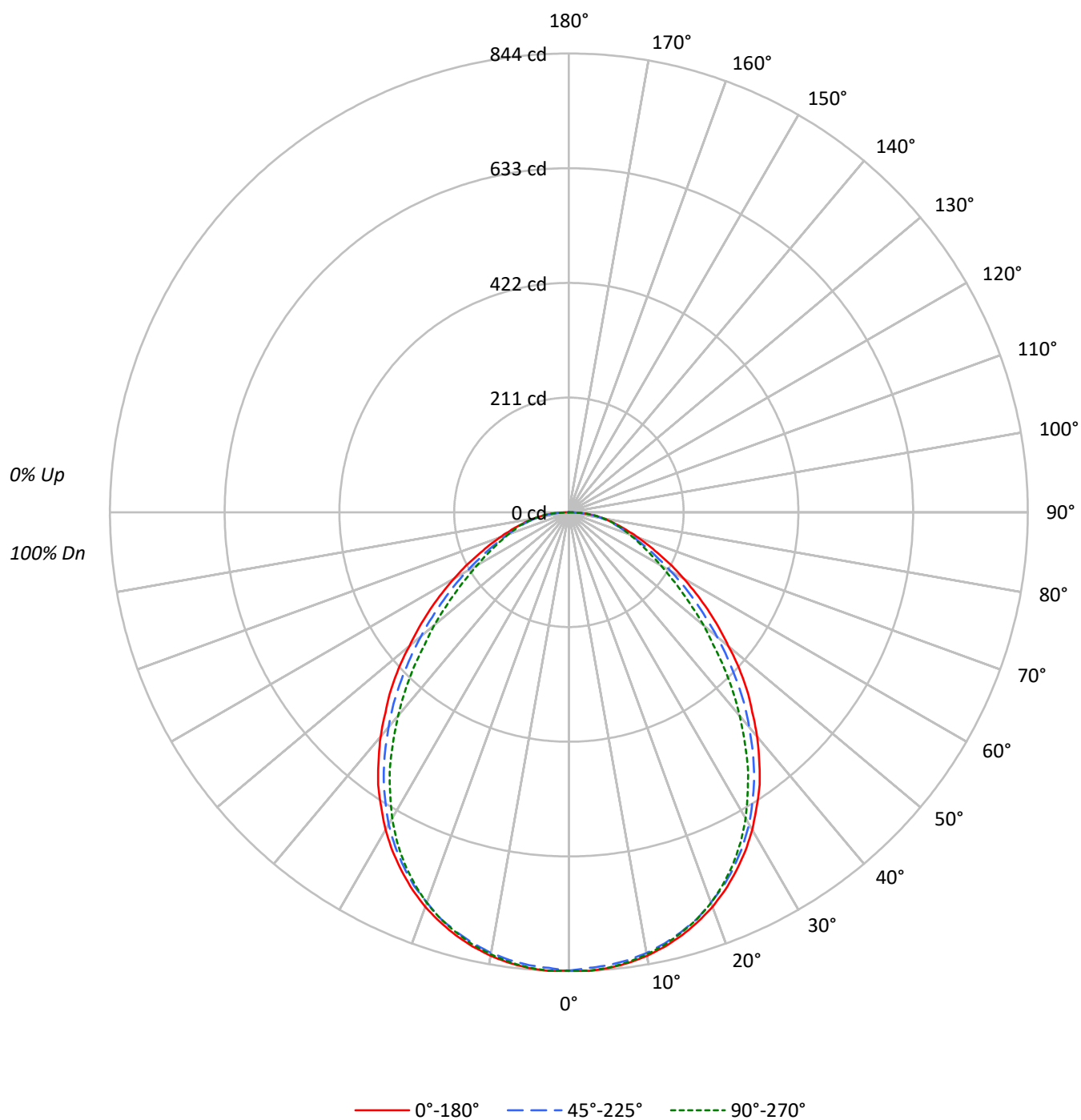
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2268	2268	2268
5°	2273	2259	2271
10°	2263	2249	2256
15°	2243	2226	2229
20°	2212	2187	2189
25°	2161	2135	2120
30°	2095	2059	2020
35°	2009	1950	1886
40°	1892	1811	1716
45°	1764	1658	1534
50°	1604	1487	1355
55°	1460	1319	1181
60°	1310	1161	1049
65°	1168	1035	964
70°	1062	943	933
75°	993	919	965
80°	998	950	1004
85°	1044	973	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	4.2
10°-20°	225.9	11.9
20°-30°	331.3	17.5
30°-40°	369.8	19.5
40°-50°	334.8	17.7
50°-60°	252.8	13.4
60°-70°	165.2	8.7
70°-80°	97.0	5.1
80°-90°	35.5	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°	636.9	33.7
0°-40°	1006.7	53.2
0°-60°	1594.2	84.3
0°-90°	1892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	842	840	836	841	841	80
15°	805	804	799	803	800	227
25°	728	725	719	718	714	335
35°	612	606	594	580	574	381
45°	464	456	436	412	403	356
55°	311	304	281	259	252	279
65°	183	178	162	153	151	184
75°	96	93	88	90	93	103
85°	34	32	32	36	36	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.9	842.9	842.9	842.9	842.9
2.5°	844.2	842.9	838.9	844.2	843.8
5°	841.5	839.8	836.2	841.1	840.7
7.5°	836.2	834.4	830.9	835.3	834.4
10°	828.2	826.4	822.9	827.8	825.6
12.5°	818.0	816.2	812.2	816.7	814.9
15°	805.1	803.8	798.9	803.4	800.2
17.5°	789.6	787.4	783.8	786.5	784.3
20°	772.3	769.6	763.8	766.5	764.3
22.5°	751.4	747.8	743.8	743.8	740.7
25°	727.9	725.2	719.0	717.6	714.1
27.5°	702.5	700.3	692.3	690.1	683.9
30°	674.1	671.0	662.6	655.5	650.1
32.5°	642.6	640.4	628.8	619.5	611.9
35°	611.5	606.2	593.7	580.4	574.2
37.5°	575.1	571.1	555.6	539.1	530.7
40°	538.7	533.8	515.6	497.4	488.5
42.5°	499.2	494.7	477.4	455.6	446.3
45°	463.6	456.5	435.6	412.1	403.2
47.5°	424.5	417.0	394.8	369.9	359.7
50°	383.2	378.4	355.3	331.3	323.7
52.5°	346.4	338.8	317.1	293.5	285.5
55°	311.3	304.2	281.1	258.9	251.8
57.5°	276.2	268.2	248.2	228.3	221.2
60°	243.4	235.4	215.8	199.4	195.0
62.5°	213.6	204.7	187.4	174.5	171.4
65°	183.4	177.6	162.5	153.2	151.4
67.5°	158.1	151.0	139.0	134.6	133.7
70°	135.0	130.1	119.9	118.6	118.6
72.5°	114.1	110.1	102.6	103.5	104.8
75°	95.5	92.8	88.4	90.1	92.8
77.5°	79.5	76.8	74.2	76.8	78.6
80°	64.4	61.7	61.3	63.5	64.8
82.5°	48.4	46.2	46.6	50.2	51.5
85°	33.8	32.4	31.5	35.5	36.0
87.5°	17.3	16.4	16.0	19.1	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)