

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: P290788

Luminaire Tested: **14GR-LD5-20-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290788
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-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.0 lumens
Efficiency: N/A
Efficacy: 121.8 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

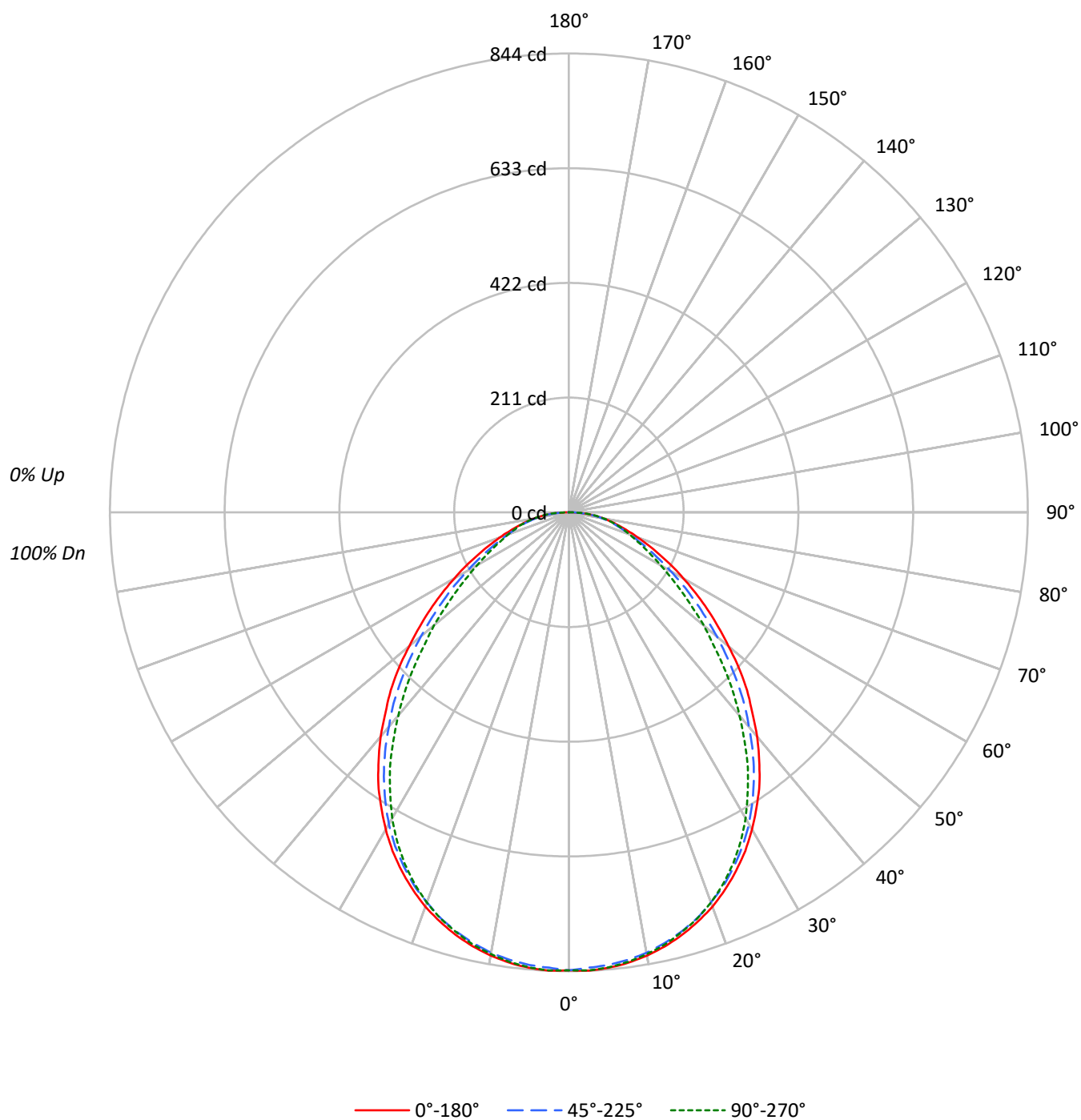
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2267	2267	2267
5°	2272	2258	2270
10°	2262	2247	2255
15°	2242	2225	2228
20°	2210	2186	2188
25°	2160	2134	2119
30°	2094	2058	2019
35°	2008	1949	1885
40°	1891	1810	1715
45°	1764	1657	1534
50°	1603	1487	1355
55°	1460	1318	1181
60°	1309	1161	1049
65°	1167	1034	964
70°	1061	943	932
75°	992	918	965
80°	998	950	1004
85°	1041	973	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	4.2
10°-20°	225.8	11.9
20°-30°	331.1	17.5
30°-40°	369.6	19.5
40°-50°	334.6	17.7
50°-60°	252.6	13.4
60°-70°	165.1	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°	636.6	33.7
0°-40°	1006.1	53.2
0°-60°	1593.4	84.3
0°-90°	1891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	841	839	836	841	840	80
15°	805	803	798	803	800	227
25°	728	725	719	717	714	335
35°	611	606	593	580	574	381
45°	463	456	435	412	403	356
55°	311	304	281	259	252	278
65°	183	178	162	153	151	184
75°	95	93	88	90	93	102
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°	842.4	842.4	842.4	842.4	842.4
2.5°	843.8	842.4	838.4	843.8	843.3
5°	841.1	839.3	835.8	840.7	840.2
7.5°	835.8	834.0	830.4	834.9	834.0
10°	827.8	826.0	822.5	827.3	825.1
12.5°	817.6	815.8	811.8	816.2	814.5
15°	804.7	803.4	798.5	802.9	799.8
17.5°	789.2	786.9	783.4	786.1	783.8
20°	771.9	769.2	763.4	766.1	763.9
22.5°	751.0	747.4	743.4	743.4	740.3
25°	727.5	724.8	718.6	717.3	713.7
27.5°	702.2	700.0	692.0	689.7	683.5
30°	673.8	670.7	662.2	655.1	649.8
32.5°	642.3	640.0	628.5	619.2	611.6
35°	611.2	605.9	593.4	580.1	573.9
37.5°	574.8	570.8	555.3	538.8	530.4
40°	538.4	533.5	515.3	497.1	488.2
42.5°	498.9	494.4	477.1	455.4	446.1
45°	463.4	456.3	435.4	411.9	403.0
47.5°	424.3	416.8	394.6	369.7	359.5
50°	383.0	378.2	355.1	331.1	323.6
52.5°	346.2	338.7	316.9	293.4	285.4
55°	311.1	304.0	281.0	258.8	251.7
57.5°	276.1	268.1	248.1	228.1	221.0
60°	243.2	235.2	215.7	199.3	194.9
62.5°	213.5	204.6	187.3	174.4	171.3
65°	183.3	177.5	162.4	153.1	151.4
67.5°	158.0	150.9	138.9	134.5	133.6
70°	134.9	130.0	119.8	118.5	118.5
72.5°	114.1	110.1	102.5	103.4	104.7
75°	95.4	92.8	88.3	90.1	92.8
77.5°	79.4	76.8	74.1	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°	33.7	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)