

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: P291084

Luminaire Tested: **14GR-LD5-20-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1782.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

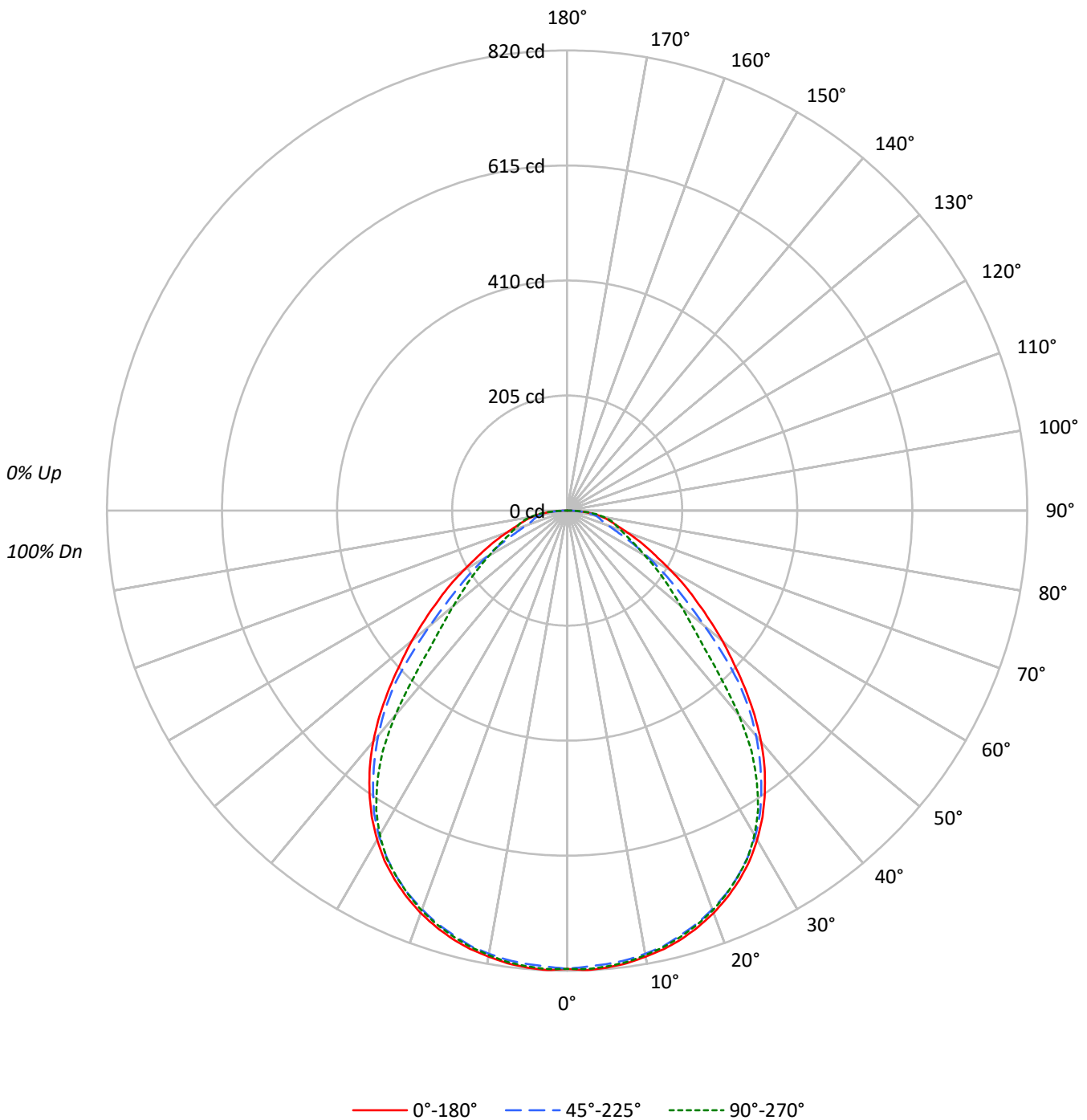
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	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	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2197	2197	2197
5°	2208	2191	2202
10°	2205	2192	2197
15°	2201	2182	2189
20°	2186	2166	2171
25°	2157	2136	2137
30°	2104	2082	2073
35°	2018	1981	1936
40°	1888	1841	1675
45°	1706	1641	1309
50°	1513	1333	1107
55°	1320	1093	977
60°	1145	900	862
65°	1004	722	796
70°	895	612	801
75°	873	646	895
80°	969	815	1026
85°	1010	868	1201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	4.3
10°-20°	221.9	12.5
20°-30°	332.0	18.6
30°-40°	374.8	21.0
40°-50°	318.0	17.8
50°-60°	215.1	12.1
60°-70°	128.4	7.2
70°-80°	80.4	4.5
80°-90°	33.8	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°	631.4	35.4
0°-40°	1006.2	56.5
0°-60°	1539.3	86.4
0°-90°	1782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	817	815	811	817	815	78
15°	790	788	783	788	786	223
25°	726	724	719	723	720	334
35°	614	610	603	598	589	383
45°	448	450	431	370	344	345
55°	281	268	233	209	208	253
65°	158	131	113	121	125	158
75°	84	75	62	82	86	90
85°	33	31	28	36	39	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.6	816.6	816.6	816.6	816.6
2.5°	819.5	817.0	813.3	818.2	817.8
5°	817.4	814.9	811.2	817.0	815.3
7.5°	813.7	811.6	807.9	813.3	811.6
10°	807.1	805.4	802.1	806.7	804.2
12.5°	800.0	798.8	794.7	798.8	796.3
15°	790.1	788.4	783.1	788.4	785.6
17.5°	777.7	775.6	771.1	775.6	773.1
20°	763.2	760.7	756.2	760.7	758.2
22.5°	745.8	743.7	739.6	743.7	740.4
25°	726.4	723.9	719.3	722.6	719.7
27.5°	704.0	700.7	696.6	699.0	697.4
30°	677.1	673.0	670.1	670.1	667.2
32.5°	647.7	644.8	639.9	637.0	633.2
35°	614.2	610.1	603.0	597.6	589.4
37.5°	578.2	573.2	564.5	550.9	539.7
40°	537.6	531.4	524.0	497.1	476.8
42.5°	494.2	492.9	480.1	434.2	406.0
45°	448.2	449.9	431.3	369.6	343.9
47.5°	401.9	407.7	373.7	313.3	300.1
50°	361.3	363.4	318.3	271.9	264.5
52.5°	319.5	316.2	271.5	239.2	233.8
55°	281.4	268.2	233.0	208.6	208.2
57.5°	247.9	223.5	199.1	180.9	182.9
60°	212.7	185.4	167.2	157.3	160.2
62.5°	181.7	155.6	139.5	136.6	141.5
65°	157.7	130.8	113.4	120.9	125.0
67.5°	134.9	112.2	92.3	110.1	111.7
70°	113.8	97.3	77.8	101.4	101.8
72.5°	96.4	86.1	67.5	91.9	93.1
75°	84.0	74.9	62.1	81.9	86.1
77.5°	73.7	64.2	57.5	70.8	77.8
80°	62.5	51.7	52.6	59.2	66.2
82.5°	48.0	40.1	41.8	48.8	53.8
85°	32.7	31.0	28.1	36.4	38.9
87.5°	17.4	16.6	14.5	20.7	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)