

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: P291244

Luminaire Tested: **14GR-LD5-20-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1773.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

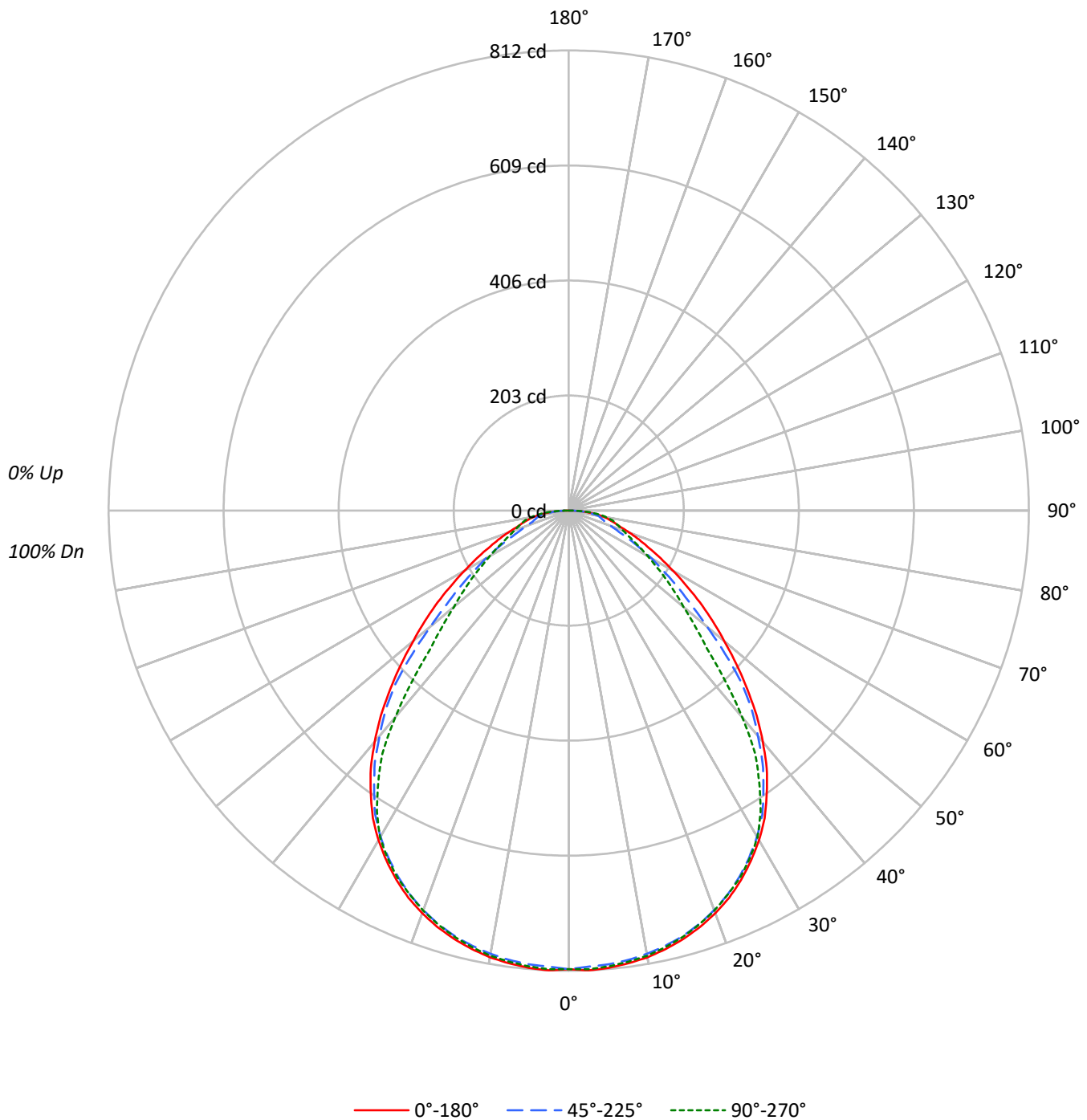
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64		
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36		
9	60	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	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2177	2177	2177
5°	2188	2171	2181
10°	2187	2170	2179
15°	2179	2166	2169
20°	2165	2149	2151
25°	2136	2116	2123
30°	2087	2064	2069
35°	2001	1967	1925
40°	1871	1825	1675
45°	1694	1645	1313
50°	1498	1331	1107
55°	1326	1094	976
60°	1145	905	865
65°	995	720	796
70°	899	618	796
75°	864	646	890
80°	962	823	1038
85°	1016	877	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	4.3
10°-20°	219.9	12.4
20°-30°	329.1	18.6
30°-40°	372.6	21.0
40°-50°	317.4	17.9
50°-60°	214.9	12.1
60°-70°	128.3	7.2
70°-80°	80.2	4.5
80°-90°	33.9	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°	625.8	35.3
0°-40°	998.4	56.3
0°-60°	1530.7	86.3
0°-90°	1773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	810	808	804	809	807	77
15°	782	780	777	782	779	221
25°	719	717	713	716	715	331
35°	609	606	599	593	586	380
45°	445	446	432	368	345	343
55°	283	267	233	208	208	253
65°	156	130	113	121	125	158
75°	83	74	62	81	86	90
85°	33	30	28	36	40	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	809.1	809.1	809.1	809.1	809.1
2.5°	812.0	809.9	805.4	810.7	809.9
5°	809.9	807.8	803.7	808.7	807.4
7.5°	805.8	803.7	800.0	805.0	802.9
10°	800.4	798.0	794.3	799.6	797.6
12.5°	792.2	789.7	786.5	791.8	788.9
15°	782.3	779.5	777.4	782.3	778.6
17.5°	770.4	767.9	765.1	770.0	765.9
20°	756.0	754.0	750.3	753.1	751.1
22.5°	739.6	736.7	733.0	736.3	733.4
25°	719.4	717.4	712.8	716.1	714.9
27.5°	696.4	695.1	689.8	693.9	691.8
30°	671.7	668.4	664.3	665.5	665.9
32.5°	643.3	639.2	635.9	633.0	630.1
35°	609.2	605.5	598.9	592.7	586.1
37.5°	573.8	568.9	562.3	548.7	540.5
40°	532.7	530.2	519.5	500.6	476.7
42.5°	490.7	488.2	478.8	436.4	410.5
45°	445.1	446.3	432.3	368.5	345.1
47.5°	401.5	404.7	374.3	314.7	302.3
50°	357.9	361.6	318.0	271.9	264.5
52.5°	319.6	316.7	271.1	238.6	235.3
55°	282.6	266.9	233.2	208.1	208.1
57.5°	244.7	222.5	198.3	182.2	182.2
60°	212.7	185.1	168.2	157.5	160.8
62.5°	183.0	153.8	139.4	137.4	141.5
65°	156.3	130.4	113.1	120.9	125.0
67.5°	134.5	111.5	93.0	109.4	111.9
70°	114.3	97.1	78.6	100.8	101.2
72.5°	95.8	85.6	67.5	91.3	93.0
75°	83.1	74.4	62.1	81.4	85.6
77.5°	72.8	63.8	57.2	70.3	78.2
80°	62.1	52.2	53.1	59.2	67.0
82.5°	47.7	40.3	42.0	48.5	54.7
85°	32.9	30.4	28.4	35.8	40.3
87.5°	17.7	16.5	14.4	20.2	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)