

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: P291100

Luminaire Tested: **14GR-LD5-28-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291100
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-LD5-28-A-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2282.0 lumens
Efficiency: N/A
Efficacy: 103.1 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

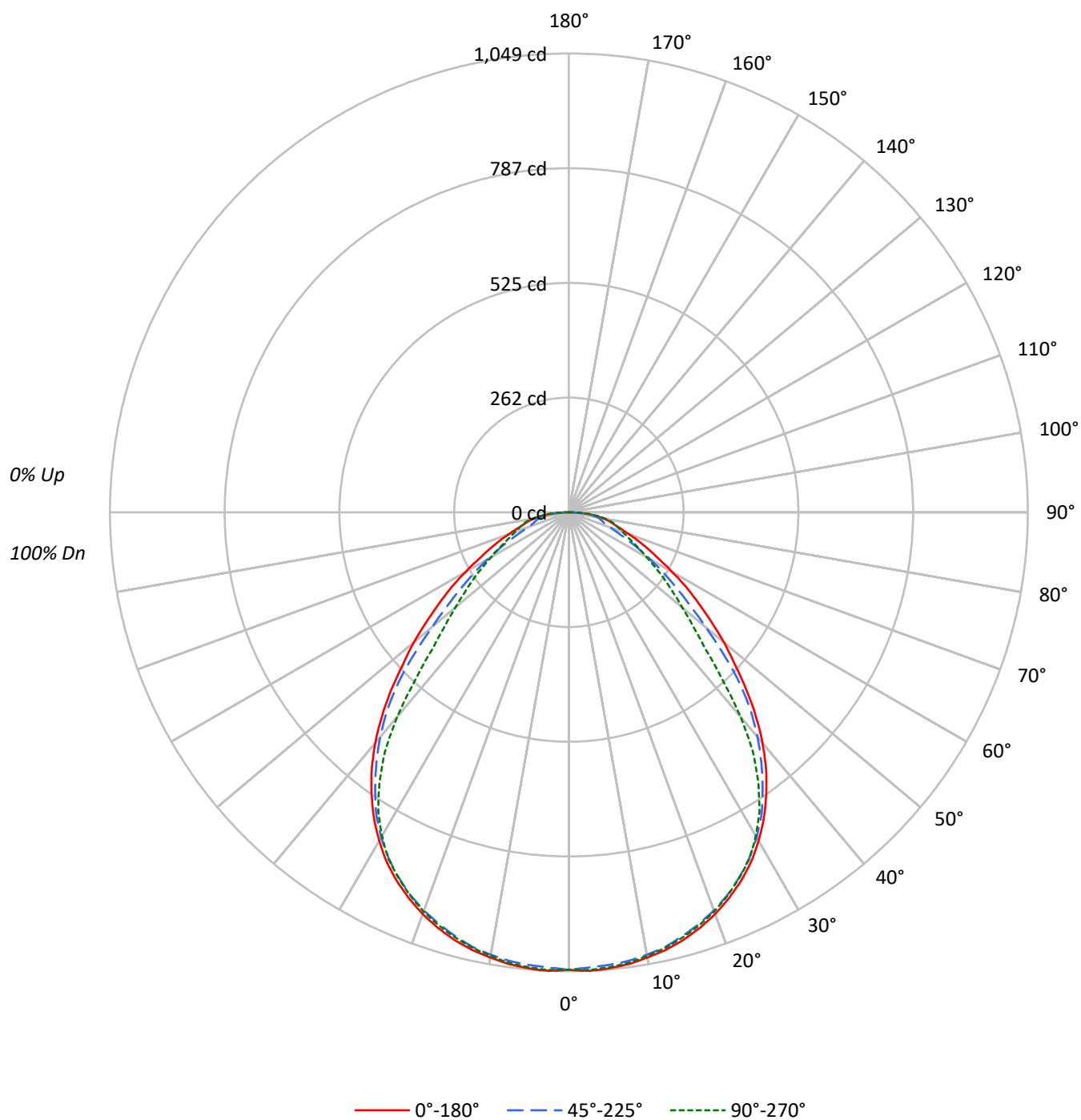
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2814	2814	2814
5°	2828	2806	2820
10°	2824	2807	2814
15°	2819	2794	2803
20°	2799	2773	2781
25°	2762	2735	2737
30°	2694	2666	2655
35°	2584	2537	2479
40°	2419	2357	2145
45°	2184	2102	1676
50°	1937	1706	1418
55°	1691	1400	1251
60°	1466	1152	1104
65°	1286	925	1019
70°	1147	784	1026
75°	1119	827	1146
80°	1240	1043	1314
85°	1294	1112	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	4.3
10°-20°	284.2	12.5
20°-30°	425.2	18.6
30°-40°	480.0	21.0
40°-50°	407.2	17.8
50°-60°	275.5	12.1
60°-70°	164.5	7.2
70°-80°	103.0	4.5
80°-90°	43.3	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°	808.6	35.4
0°-40°	1288.6	56.5
0°-60°	1971.2	86.4
0°-90°	2282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1047	1044	1039	1046	1044	100
15°	1012	1010	1003	1010	1006	285
25°	930	927	921	925	922	428
35°	786	781	772	765	755	490
45°	574	576	552	473	440	442
55°	360	343	298	267	267	325
65°	202	168	145	155	160	202
75°	108	96	80	105	110	116
85°	42	40	36	47	50	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1049.4	1046.2	1041.5	1047.8	1047.3
5°	1046.8	1043.6	1038.8	1046.2	1044.1
7.5°	1042.0	1039.4	1034.6	1041.5	1039.4
10°	1033.5	1031.4	1027.2	1033.0	1029.8
12.5°	1024.5	1022.9	1017.6	1022.9	1019.7
15°	1011.8	1009.7	1002.8	1009.7	1006.0
17.5°	995.9	993.2	987.4	993.2	990.1
20°	977.3	974.2	968.3	974.2	971.0
22.5°	955.1	952.4	947.1	952.4	948.2
25°	930.2	927.0	921.2	925.4	921.7
27.5°	901.6	897.3	892.0	895.2	893.1
30°	867.1	861.8	858.1	858.1	854.4
32.5°	829.5	825.8	819.4	815.7	810.9
35°	786.5	781.2	772.2	765.3	754.7
37.5°	740.4	734.1	722.9	705.4	691.1
40°	688.5	680.5	671.0	636.5	610.6
42.5°	632.8	631.2	614.8	556.0	519.9
45°	574.0	576.1	552.3	473.3	440.4
47.5°	514.6	522.1	478.6	401.2	384.3
50°	462.7	465.4	407.6	348.2	338.7
52.5°	409.2	404.9	347.7	306.3	299.5
55°	360.4	343.4	298.4	267.1	266.6
57.5°	317.5	286.2	254.9	231.6	234.3
60°	272.4	237.4	214.1	201.4	205.1
62.5°	232.7	199.3	178.6	174.9	181.3
65°	201.9	167.5	145.2	154.8	160.1
67.5°	172.8	143.6	118.2	141.0	143.1
70°	145.8	124.6	99.6	129.9	130.4
72.5°	123.5	110.2	86.4	117.7	119.3
75°	107.6	95.9	79.5	104.9	110.2
77.5°	94.3	82.2	73.7	90.6	99.6
80°	80.0	66.3	67.3	75.8	84.8
82.5°	61.5	51.4	53.5	62.5	68.9
85°	41.9	39.8	36.0	46.6	49.8
87.5°	22.3	21.2	18.6	26.5	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)