

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: P291101

Luminaire Tested: **14GR-LD5-28-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291101
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2373.0 lumens
Efficiency: N/A
Efficacy: 107.7 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

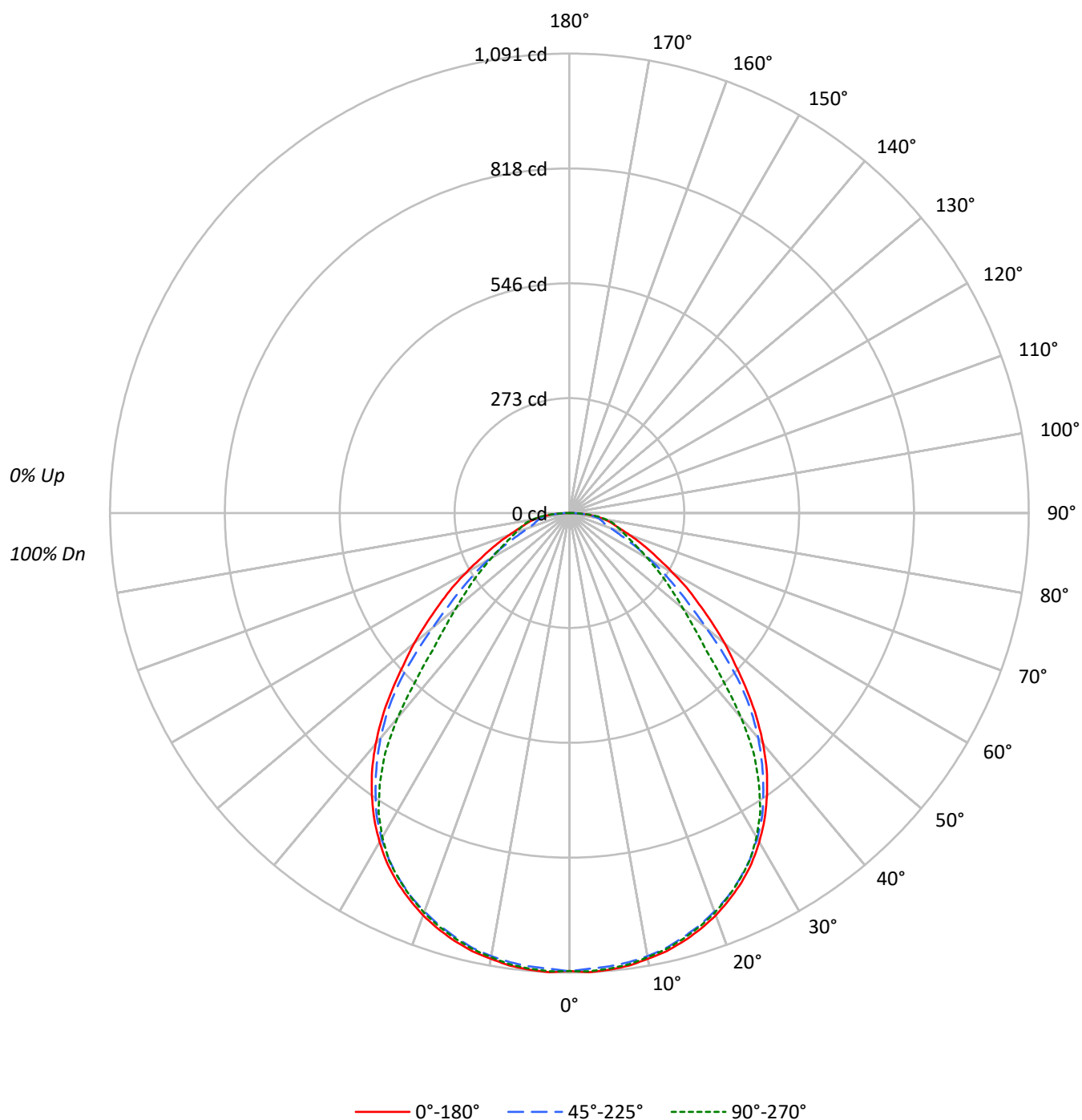
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2926	2926	2926
5°	2940	2918	2933
10°	2937	2919	2926
15°	2931	2905	2914
20°	2910	2883	2891
25°	2872	2844	2846
30°	2802	2773	2761
35°	2687	2638	2578
40°	2515	2451	2230
45°	2272	2186	1743
50°	2015	1774	1474
55°	1758	1456	1301
60°	1525	1199	1148
65°	1337	961	1060
70°	1193	815	1067
75°	1163	860	1192
80°	1289	1085	1367
85°	1343	1158	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	4.3
10°-20°	295.6	12.5
20°-30°	442.1	18.6
30°-40°	499.1	21.0
40°-50°	423.4	17.8
50°-60°	286.5	12.1
60°-70°	171.0	7.2
70°-80°	107.1	4.5
80°-90°	45.0	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°	840.9	35.4
0°-40°	1340.0	56.5
0°-60°	2049.9	86.4
0°-90°	2373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1088	1085	1080	1088	1086	103
15°	1052	1050	1043	1050	1046	297
25°	967	964	958	962	958	445
35°	818	812	803	796	785	510
45°	597	599	574	492	458	460
55°	375	357	310	278	277	338
65°	210	174	151	161	166	210
75°	112	100	83	109	115	120
85°	44	41	38	48	52	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.4	1087.4	1087.4	1087.4	1087.4
2.5°	1091.3	1088.0	1083.0	1089.6	1089.1
5°	1088.5	1085.2	1080.2	1088.0	1085.8
7.5°	1083.6	1080.8	1075.8	1083.0	1080.8
10°	1074.7	1072.5	1068.1	1074.2	1070.9
12.5°	1065.4	1063.7	1058.2	1063.7	1060.4
15°	1052.1	1049.9	1042.8	1049.9	1046.1
17.5°	1035.6	1032.9	1026.8	1032.9	1029.5
20°	1016.3	1013.0	1006.9	1013.0	1009.7
22.5°	993.2	990.4	984.9	990.4	986.0
25°	967.3	964.0	957.9	962.3	958.4
27.5°	937.5	933.1	927.6	930.9	928.7
30°	901.7	896.2	892.3	892.3	888.4
32.5°	862.5	858.7	852.1	848.2	843.3
35°	817.9	812.4	803.0	795.9	784.8
37.5°	770.0	763.3	751.8	733.6	718.7
40°	715.9	707.7	697.8	661.9	634.9
42.5°	658.1	656.4	639.3	578.2	540.7
45°	596.9	599.1	574.3	492.2	458.0
47.5°	535.2	542.9	497.7	417.2	399.6
50°	481.2	483.9	423.8	362.1	352.2
52.5°	425.5	421.1	361.6	318.6	311.4
55°	374.8	357.1	310.3	277.8	277.2
57.5°	330.1	297.6	265.1	240.9	243.6
60°	283.3	246.9	222.7	209.4	213.3
62.5°	242.0	207.2	185.7	181.9	188.5
65°	210.0	174.2	151.0	160.9	166.4
67.5°	179.7	149.4	122.9	146.6	148.8
70°	151.6	129.5	103.6	135.0	135.6
72.5°	128.4	114.6	89.8	122.4	124.0
75°	111.9	99.8	82.7	109.1	114.6
77.5°	98.1	85.4	76.6	94.2	103.6
80°	83.2	68.9	70.0	78.8	88.2
82.5°	63.9	53.5	55.7	65.0	71.6
85°	43.5	41.3	37.5	48.5	51.8
87.5°	23.1	22.0	19.3	27.6	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)