

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: P291107

Luminaire Tested: **14GR-LD5-28-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291107
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2745.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

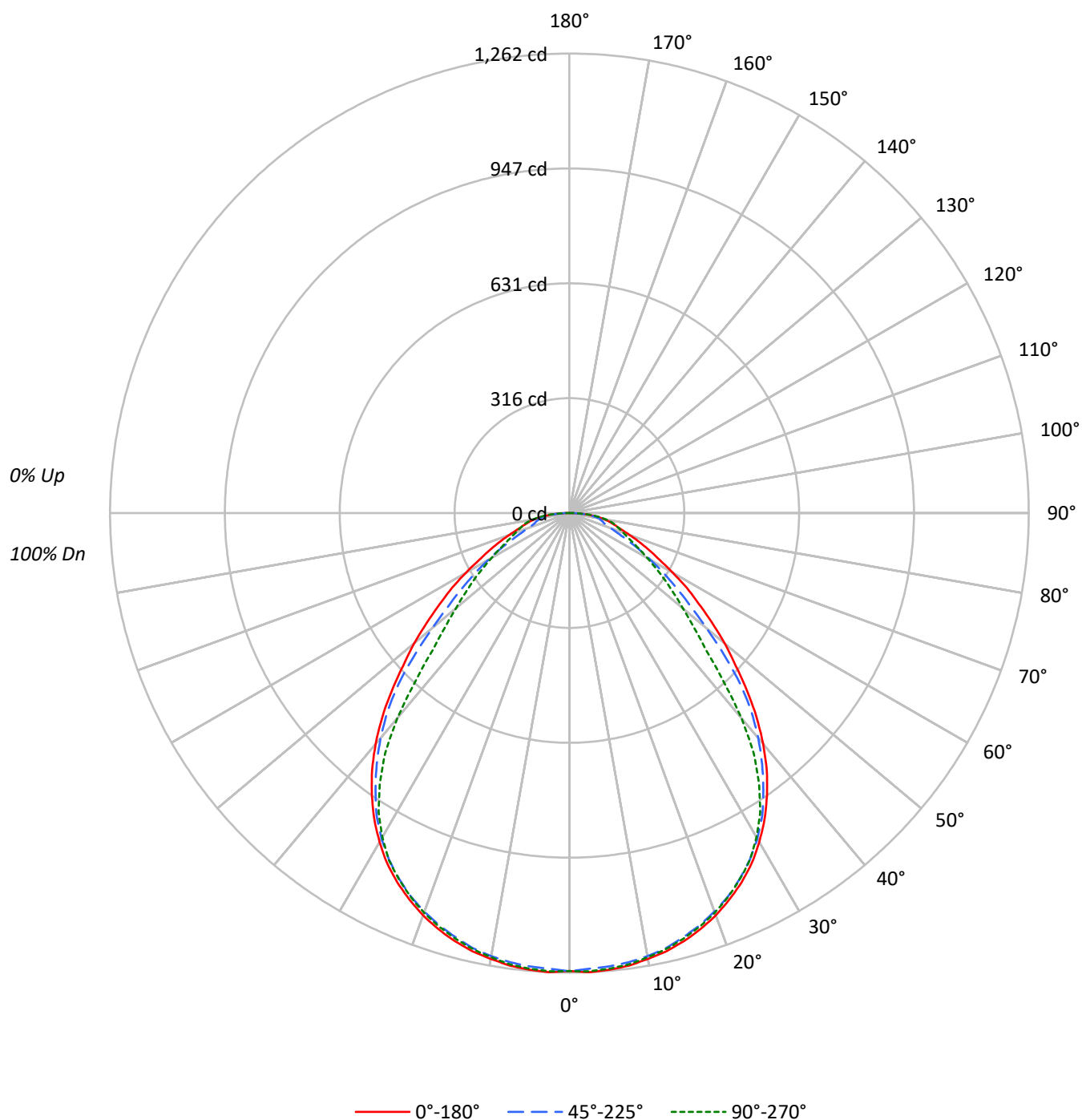
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3385	3385	3385
5°	3401	3375	3393
10°	3397	3376	3385
15°	3391	3360	3371
20°	3367	3336	3345
25°	3322	3290	3292
30°	3241	3207	3193
35°	3108	3052	2983
40°	2909	2835	2580
45°	2628	2528	2016
50°	2330	2053	1706
55°	2034	1684	1505
60°	1764	1386	1328
65°	1547	1112	1226
70°	1379	943	1234
75°	1345	994	1379
80°	1492	1255	1581
85°	1556	1340	1849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	4.3
10°-20°	341.9	12.5
20°-30°	511.4	18.6
30°-40°	577.3	21.0
40°-50°	489.8	17.8
50°-60°	331.4	12.1
60°-70°	197.8	7.2
70°-80°	123.9	4.5
80°-90°	52.1	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°	972.7	35.4
0°-40°	1550.0	56.5
0°-60°	2371.2	86.4
0°-90°	2745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1259	1255	1250	1258	1256	120
15°	1217	1214	1206	1214	1210	343
25°	1119	1115	1108	1113	1109	515
35°	946	940	929	921	908	589
45°	690	693	664	569	530	532
55°	434	413	359	321	321	391
65°	243	202	175	186	192	243
75°	129	115	96	126	133	139
85°	50	48	43	56	60	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1257.9	1257.9	1257.9	1257.9	1257.9
2.5°	1262.3	1258.5	1252.8	1260.4	1259.8
5°	1259.2	1255.3	1249.6	1258.5	1256.0
7.5°	1253.4	1250.2	1244.5	1252.8	1250.2
10°	1243.2	1240.7	1235.6	1242.6	1238.8
12.5°	1232.4	1230.5	1224.1	1230.5	1226.6
15°	1217.1	1214.5	1206.2	1214.5	1210.1
17.5°	1198.0	1194.8	1187.8	1194.8	1190.9
20°	1175.6	1171.8	1164.8	1171.8	1168.0
22.5°	1148.9	1145.7	1139.3	1145.7	1140.6
25°	1118.9	1115.1	1108.1	1113.2	1108.7
27.5°	1084.5	1079.4	1073.0	1076.8	1074.3
30°	1043.0	1036.7	1032.2	1032.2	1027.7
32.5°	997.8	993.3	985.6	981.2	975.4
35°	946.1	939.7	928.9	920.6	907.9
37.5°	890.7	883.0	869.6	848.6	831.4
40°	828.2	818.6	807.1	765.7	734.5
42.5°	761.2	759.3	739.6	668.8	625.4
45°	690.5	693.0	664.3	569.3	529.8
47.5°	619.1	628.0	575.7	482.6	462.2
50°	556.6	559.8	490.3	418.9	407.4
52.5°	492.2	487.1	418.2	368.5	360.2
55°	433.5	413.1	358.9	321.3	320.7
57.5°	381.9	344.3	306.7	278.6	281.8
60°	327.7	285.6	257.6	242.3	246.7
62.5°	279.9	239.7	214.9	210.4	218.0
65°	242.9	201.5	174.7	186.2	192.5
67.5°	207.8	172.8	142.2	169.6	172.1
70°	175.3	149.8	119.9	156.2	156.8
72.5°	148.5	132.6	103.9	141.5	143.4
75°	129.4	115.4	95.6	126.2	132.6
77.5°	113.5	98.8	88.6	109.0	119.9
80°	96.3	79.7	81.0	91.2	102.0
82.5°	74.0	61.8	64.4	75.2	82.9
85°	50.4	47.8	43.4	56.1	59.9
87.5°	26.8	25.5	22.3	31.9	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)