

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: P291106

Luminaire Tested: **14GR-LD5-28-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291106
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2733.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

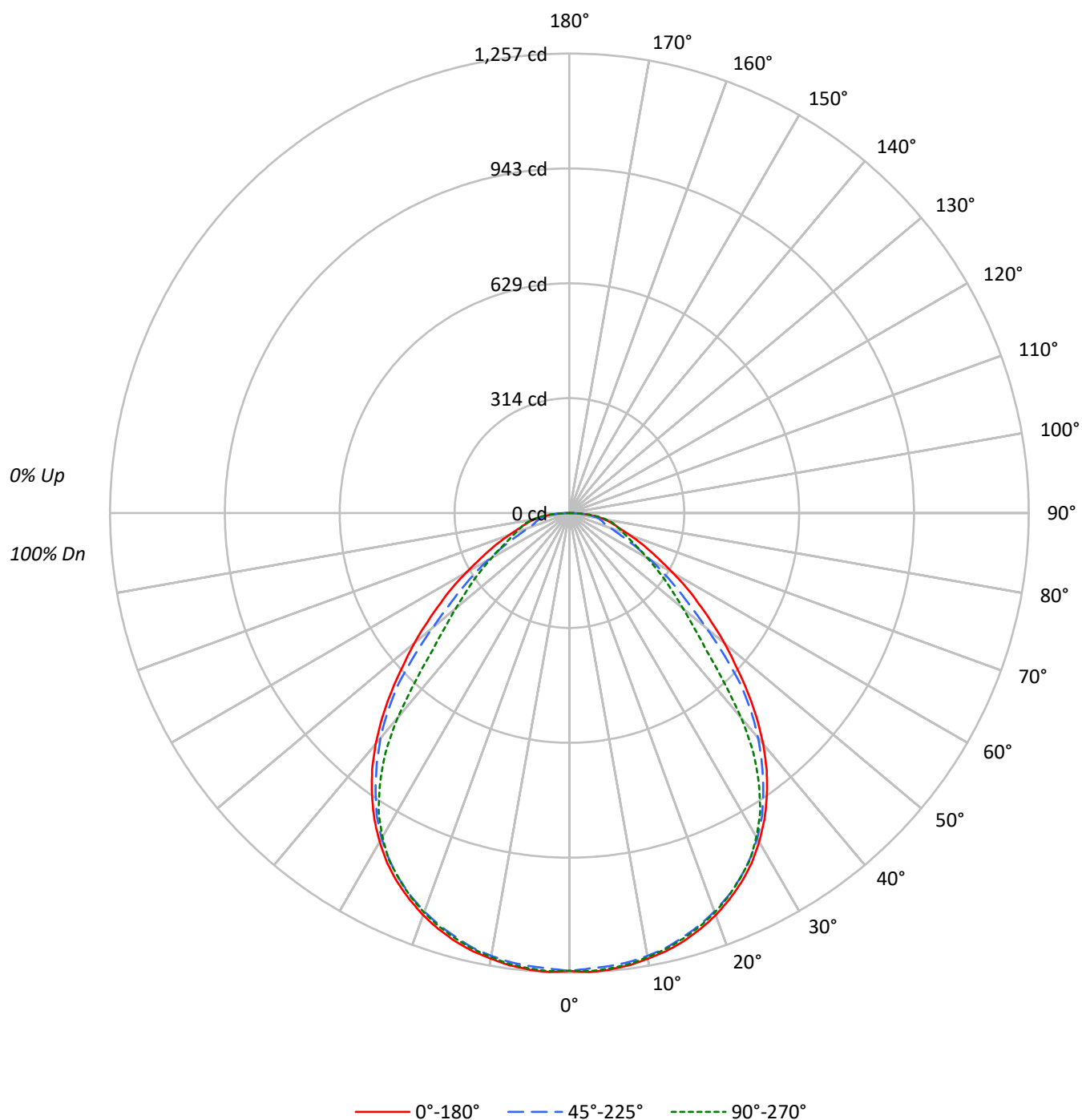
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	3370	3370	3370
5°	3387	3361	3378
10°	3382	3362	3370
15°	3376	3346	3356
20°	3352	3321	3330
25°	3308	3276	3277
30°	3227	3193	3179
35°	3095	3038	2969
40°	2897	2823	2569
45°	2616	2517	2007
50°	2320	2043	1698
55°	2025	1677	1498
60°	1756	1380	1322
65°	1540	1107	1221
70°	1374	939	1229
75°	1340	990	1372
80°	1485	1249	1574
85°	1547	1334	1843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	4.3
10°-20°	340.4	12.5
20°-30°	509.2	18.6
30°-40°	574.8	21.0
40°-50°	487.6	17.8
50°-60°	329.9	12.1
60°-70°	196.9	7.2
70°-80°	123.3	4.5
80°-90°	51.9	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°	968.4	35.4
0°-40°	1543.2	56.5
0°-60°	2360.8	86.4
0°-90°	2733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1254	1250	1244	1253	1250	119
15°	1212	1209	1201	1209	1205	342
25°	1114	1110	1103	1108	1104	512
35°	942	936	925	917	904	587
45°	687	690	661	567	528	530
55°	432	411	357	320	319	389
65°	242	201	174	185	192	242
75°	129	115	95	126	132	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°	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1256.8	1253.0	1247.3	1254.9	1254.3
5°	1253.7	1249.8	1244.1	1253.0	1250.5
7.5°	1247.9	1244.8	1239.1	1247.3	1244.8
10°	1237.8	1235.2	1230.2	1237.1	1233.3
12.5°	1227.0	1225.1	1218.7	1225.1	1221.3
15°	1211.8	1209.2	1201.0	1209.2	1204.8
17.5°	1192.7	1189.5	1182.6	1189.5	1185.7
20°	1170.5	1166.7	1159.7	1166.7	1162.9
22.5°	1143.8	1140.7	1134.3	1140.7	1135.6
25°	1114.0	1110.2	1103.2	1108.3	1103.8
27.5°	1079.7	1074.6	1068.3	1072.1	1069.6
30°	1038.5	1032.1	1027.7	1027.7	1023.2
32.5°	993.4	989.0	981.3	976.9	971.2
35°	942.0	935.6	924.8	916.6	903.9
37.5°	886.8	879.1	865.8	844.9	827.7
40°	824.6	815.0	803.6	762.3	731.2
42.5°	757.9	756.0	736.3	665.9	622.7
45°	687.4	690.0	661.4	566.8	527.5
47.5°	616.4	625.2	573.2	480.5	460.2
50°	554.1	557.3	488.1	417.0	405.6
52.5°	490.0	485.0	416.4	366.9	358.6
55°	431.6	411.3	357.4	319.9	319.3
57.5°	380.2	342.8	305.3	277.4	280.6
60°	326.3	284.4	256.4	241.2	245.7
62.5°	278.7	238.7	213.9	209.5	217.1
65°	241.8	200.6	173.9	185.3	191.7
67.5°	206.9	172.0	141.6	168.8	171.4
70°	174.6	149.2	119.3	155.5	156.2
72.5°	147.9	132.0	103.5	140.9	142.8
75°	128.9	114.9	95.2	125.7	132.0
77.5°	113.0	98.4	88.2	108.5	119.3
80°	95.8	79.3	80.6	90.8	101.6
82.5°	73.6	61.6	64.1	74.9	82.5
85°	50.1	47.6	43.2	55.9	59.7
87.5°	26.7	25.4	22.2	31.7	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)