

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: P291199

Luminaire Tested: **14GR-LD5-28-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291199
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-LD5-28-A125-UNV-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2752.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

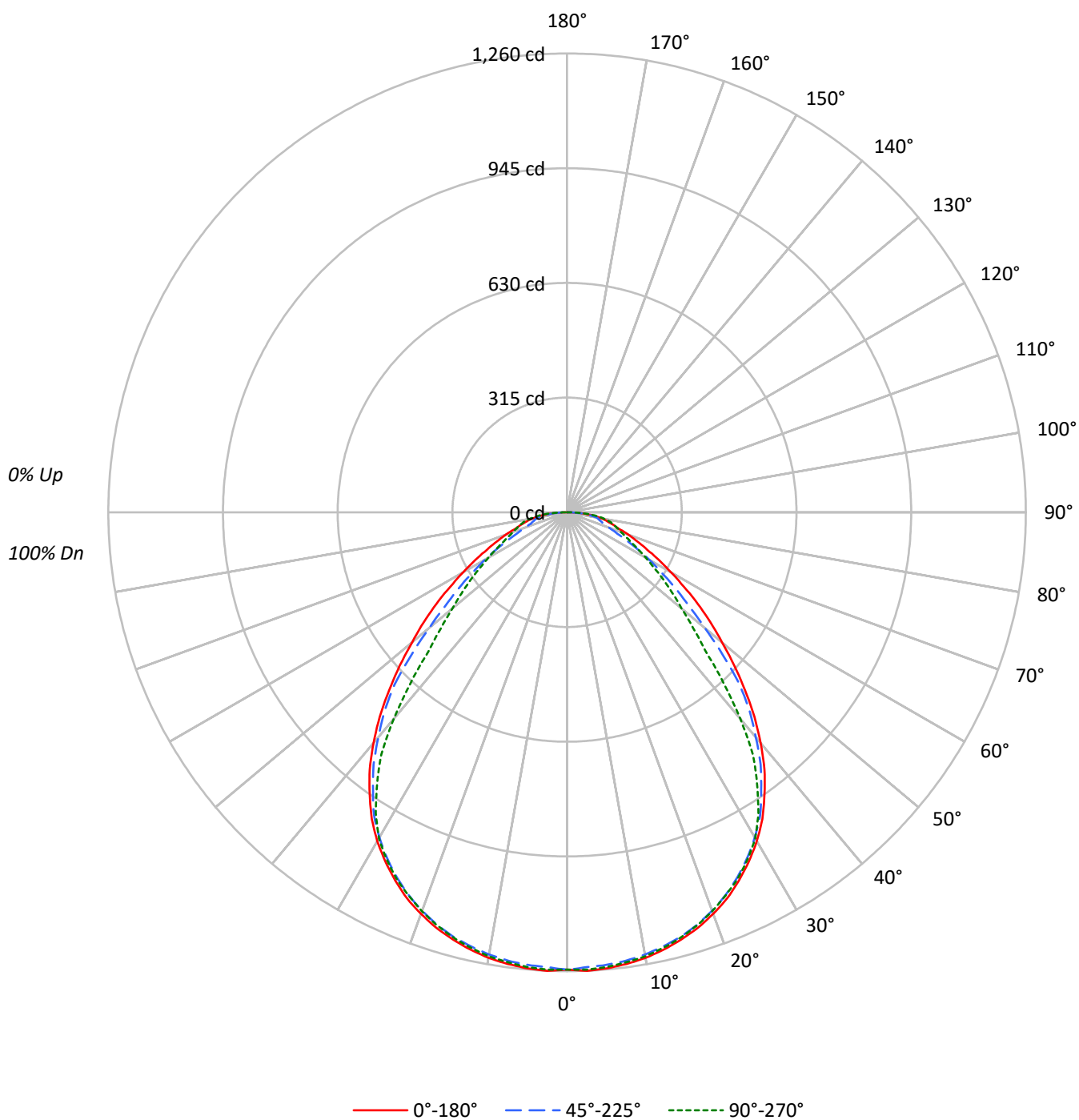
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3379	3379	3379
5°	3396	3370	3385
10°	3395	3369	3383
15°	3383	3362	3367
20°	3361	3335	3338
25°	3315	3285	3295
30°	3240	3204	3212
35°	3106	3054	2989
40°	2904	2833	2599
45°	2629	2554	2039
50°	2325	2066	1719
55°	2058	1698	1516
60°	1777	1405	1343
65°	1545	1118	1236
70°	1397	959	1236
75°	1341	1002	1381
80°	1494	1277	1613
85°	1578	1362	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	4.3
10°-20°	341.4	12.4
20°-30°	510.9	18.6
30°-40°	578.3	21.0
40°-50°	492.6	17.9
50°-60°	333.5	12.1
60°-70°	199.1	7.2
70°-80°	124.4	4.5
80°-90°	52.6	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°	971.4	35.3
0°-40°	1549.7	56.3
0°-60°	2375.9	86.3
0°-90°	2752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1257	1254	1248	1255	1253	119
15°	1214	1210	1207	1214	1209	343
25°	1117	1114	1106	1112	1110	514
35°	946	940	930	920	910	589
45°	691	693	671	572	536	533
55°	439	414	362	323	323	392
65°	243	202	176	188	194	245
75°	129	116	96	126	133	139
85°	51	47	44	56	63	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.8	1255.8	1255.8	1255.8	1255.8
2.5°	1260.3	1257.1	1250.1	1258.4	1257.1
5°	1257.1	1253.9	1247.5	1255.2	1253.3
7.5°	1250.7	1247.5	1241.8	1249.4	1246.2
10°	1242.4	1238.6	1232.8	1241.1	1237.9
12.5°	1229.6	1225.8	1220.7	1229.0	1224.5
15°	1214.3	1209.9	1206.7	1214.3	1208.6
17.5°	1195.8	1192.0	1187.5	1195.2	1188.8
20°	1173.5	1170.3	1164.5	1169.0	1165.8
22.5°	1147.9	1143.5	1137.7	1142.8	1138.3
25°	1116.6	1113.5	1106.4	1111.5	1109.6
27.5°	1080.9	1079.0	1070.7	1077.1	1073.9
30°	1042.6	1037.5	1031.1	1033.0	1033.6
32.5°	998.5	992.1	987.0	982.6	978.1
35°	945.5	939.8	929.6	920.0	909.8
37.5°	890.6	883.0	872.8	851.7	838.9
40°	826.8	823.0	806.4	777.0	740.0
42.5°	761.7	757.8	743.2	677.4	637.2
45°	690.8	692.7	671.0	572.0	535.7
47.5°	623.1	628.2	581.0	488.4	469.3
50°	555.4	561.2	493.5	422.0	410.5
52.5°	496.1	491.6	420.7	370.3	365.2
55°	438.6	414.4	362.0	323.1	323.1
57.5°	379.9	345.4	307.7	282.8	282.8
60°	330.1	287.3	261.1	244.5	249.6
62.5°	284.1	238.8	216.4	213.2	219.6
65°	242.6	202.4	175.6	187.7	194.1
67.5°	208.8	173.0	144.3	169.8	173.7
70°	177.5	150.7	121.9	156.4	157.1
72.5°	148.8	132.8	104.7	141.7	144.3
75°	129.0	115.6	96.4	126.4	132.8
77.5°	113.0	99.0	88.7	109.2	121.3
80°	96.4	81.1	82.4	91.9	104.1
82.5°	74.1	62.6	65.1	75.3	84.9
85°	51.1	47.2	44.1	55.5	62.6
87.5°	27.5	25.5	22.3	31.3	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)