

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: P290911

Luminaire Tested: **14GR-LD5-28-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-F125-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2716.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

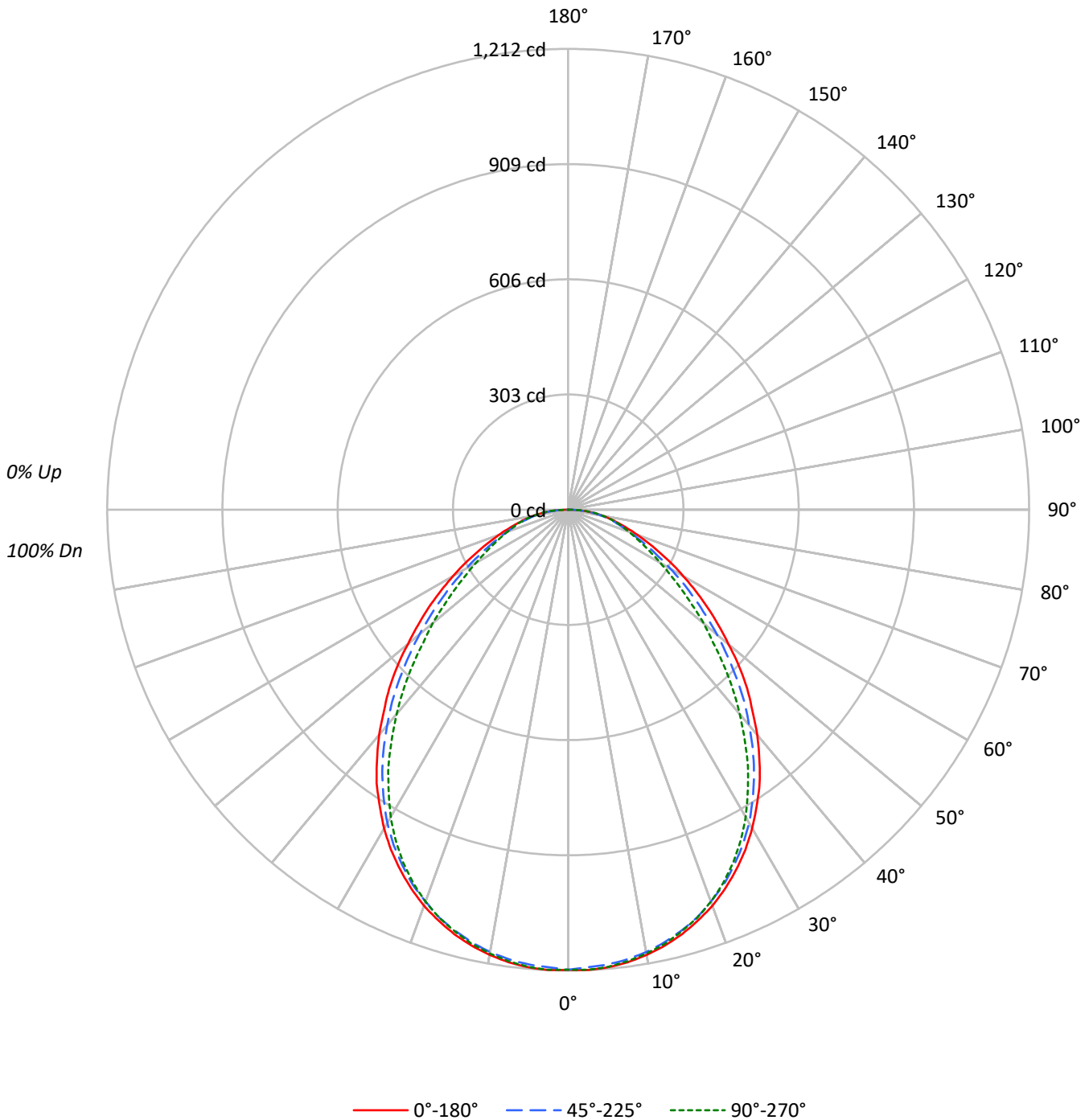
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3256	3256	3256
5°	3263	3243	3260
10°	3249	3228	3238
15°	3220	3195	3200
20°	3175	3140	3142
25°	3102	3064	3044
30°	3007	2955	2900
35°	2884	2800	2708
40°	2716	2600	2463
45°	2533	2380	2203
50°	2303	2135	1945
55°	2097	1893	1696
60°	1880	1667	1506
65°	1677	1486	1384
70°	1525	1354	1339
75°	1425	1319	1385
80°	1432	1364	1443
85°	1494	1399	1593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	4.2
10°-20°	324.3	11.9
20°-30°	475.6	17.5
30°-40°	530.8	19.5
40°-50°	480.5	17.7
50°-60°	362.8	13.4
60°-70°	237.2	8.7
70°-80°	139.3	5.1
80°-90°	51.0	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°	914.3	33.7
0°-40°	1445.1	53.2
0°-60°	2288.5	84.3
0°-90°	2716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1208	1206	1200	1207	1207	115
15°	1156	1154	1147	1153	1149	326
25°	1045	1041	1032	1030	1025	481
35°	878	870	852	833	824	547
45°	666	655	625	592	579	511
55°	447	437	404	372	362	400
65°	263	255	233	220	217	264
75°	137	133	127	129	133	147
85°	48	46	45	51	52	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.0	1210.0	1210.0	1210.0	1210.0
2.5°	1211.9	1210.0	1204.2	1211.9	1211.2
5°	1208.0	1205.5	1200.4	1207.4	1206.8
7.5°	1200.4	1197.8	1192.7	1199.1	1197.8
10°	1188.9	1186.4	1181.3	1188.3	1185.1
12.5°	1174.3	1171.7	1166.0	1172.3	1169.8
15°	1155.8	1153.9	1146.8	1153.2	1148.8
17.5°	1133.5	1130.3	1125.2	1129.0	1125.8
20°	1108.6	1104.8	1096.5	1100.3	1097.1
22.5°	1078.6	1073.5	1067.8	1067.8	1063.3
25°	1044.9	1041.0	1032.1	1030.2	1025.1
27.5°	1008.5	1005.3	993.9	990.7	981.7
30°	967.7	963.3	951.1	940.9	933.3
32.5°	922.5	919.3	902.7	889.3	878.5
35°	877.8	870.2	852.3	833.2	824.3
37.5°	825.6	819.8	797.5	773.9	761.8
40°	773.3	766.3	740.1	714.0	701.2
42.5°	716.5	710.2	685.3	654.1	640.7
45°	665.5	655.3	625.4	591.6	578.8
47.5°	609.4	598.6	566.7	531.0	516.4
50°	550.2	543.1	510.0	475.6	464.7
52.5°	497.2	486.4	455.2	421.4	409.9
55°	446.9	436.7	403.5	371.7	361.5
57.5°	396.5	385.0	356.4	327.7	317.5
60°	349.3	337.9	309.8	286.2	279.9
62.5°	306.6	293.9	269.0	250.5	246.1
65°	263.3	255.0	233.3	219.9	217.4
67.5°	226.9	216.7	199.5	193.2	191.9
70°	193.8	186.8	172.1	170.2	170.2
72.5°	163.8	158.1	147.3	148.5	150.4
75°	137.1	133.2	126.9	129.4	133.2
77.5°	114.1	110.3	106.5	110.3	112.8
80°	92.4	88.6	88.0	91.2	93.1
82.5°	69.5	66.3	66.9	72.0	73.9
85°	48.4	46.5	45.3	51.0	51.6
87.5°	24.9	23.6	22.9	27.4	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)