

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: P290766

Luminaire Tested: **14GR-LD5-28-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290766
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-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3054.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

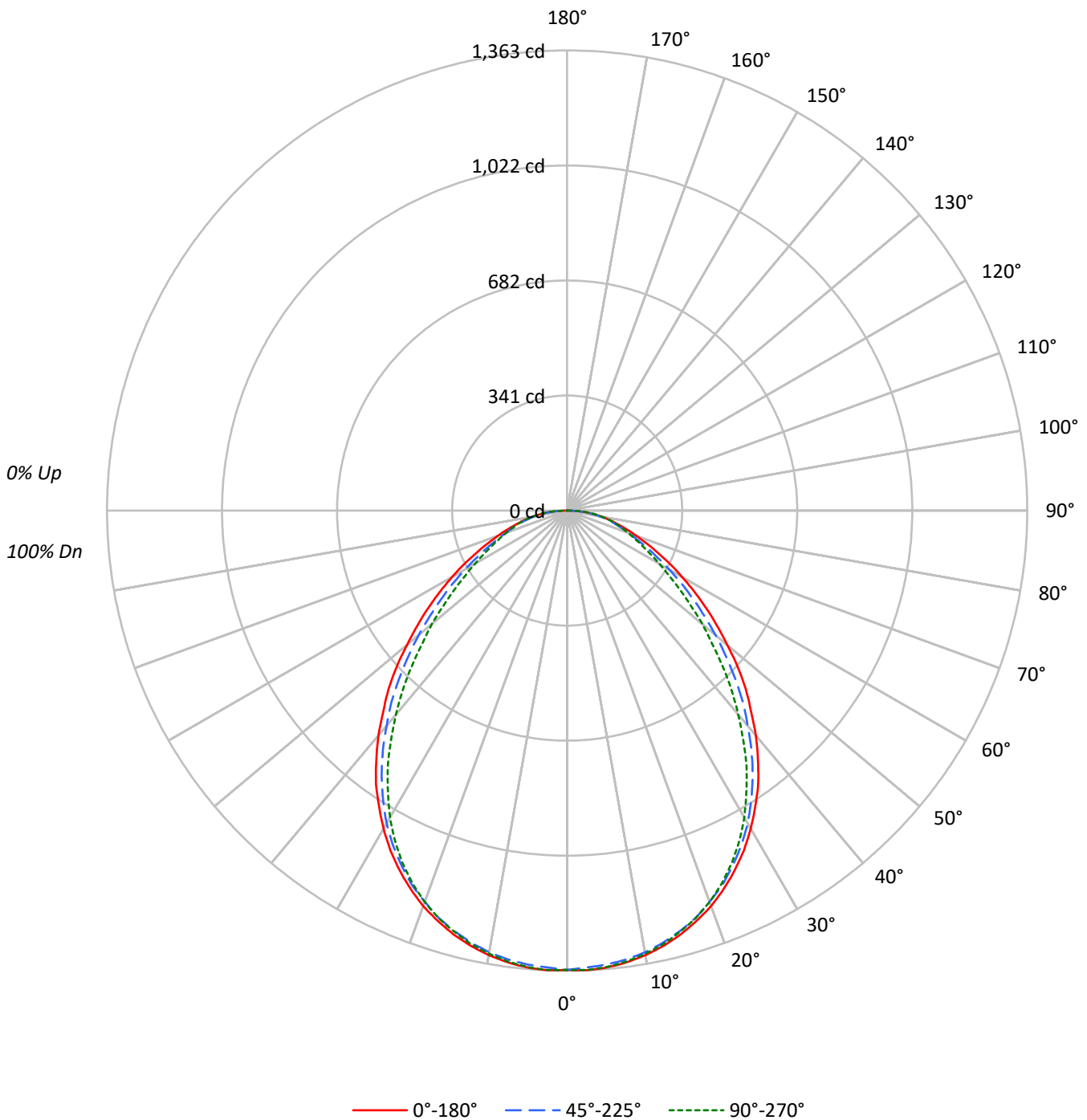
Input Watts (W): 23.343
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3661	3661	3661
5°	3669	3646	3666
10°	3653	3630	3641
15°	3621	3593	3599
20°	3570	3531	3533
25°	3488	3446	3423
30°	3381	3323	3261
35°	3243	3148	3045
40°	3054	2923	2770
45°	2848	2676	2477
50°	2590	2401	2188
55°	2358	2129	1907
60°	2114	1875	1694
65°	1885	1671	1556
70°	1714	1522	1506
75°	1602	1483	1557
80°	1610	1533	1623
85°	1683	1572	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	4.2
10°-20°	364.7	11.9
20°-30°	534.7	17.5
30°-40°	596.8	19.5
40°-50°	540.4	17.7
50°-60°	408.0	13.4
60°-70°	266.7	8.7
70°-80°	156.6	5.1
80°-90°	57.3	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°	1028.1	33.7
0°-40°	1624.9	53.2
0°-60°	2573.3	84.3
0°-90°	3054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1358	1356	1350	1358	1357	129
15°	1300	1298	1290	1297	1292	366
25°	1175	1171	1160	1158	1153	540
35°	987	978	958	937	927	615
45°	748	737	703	665	651	575
55°	502	491	454	418	406	450
65°	296	287	262	247	244	297
75°	154	150	143	146	150	166
85°	54	52	51	57	58	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.5	1360.5	1360.5	1360.5	1360.5
2.5°	1362.7	1360.5	1354.1	1362.7	1362.0
5°	1358.4	1355.5	1349.8	1357.7	1357.0
7.5°	1349.8	1346.9	1341.2	1348.4	1346.9
10°	1336.9	1334.0	1328.3	1336.2	1332.6
12.5°	1320.4	1317.5	1311.1	1318.2	1315.4
15°	1299.6	1297.5	1289.6	1296.7	1291.7
17.5°	1274.5	1270.9	1265.2	1269.5	1265.9
20°	1246.6	1242.3	1232.9	1237.2	1233.7
22.5°	1212.9	1207.1	1200.7	1200.7	1195.7
25°	1174.9	1170.6	1160.5	1158.4	1152.7
27.5°	1134.0	1130.4	1117.5	1113.9	1103.9
30°	1088.1	1083.1	1069.5	1058.0	1049.4
32.5°	1037.2	1033.7	1015.0	1000.0	987.8
35°	987.1	978.5	958.4	936.9	926.9
37.5°	928.3	921.8	896.8	870.2	856.6
40°	869.5	861.6	832.2	802.8	788.5
42.5°	805.7	798.5	770.6	735.5	720.4
45°	748.4	736.9	703.2	665.2	650.9
47.5°	685.3	673.1	637.3	597.1	580.6
50°	618.6	610.7	573.5	534.8	522.6
52.5°	559.1	546.9	511.8	473.8	460.9
55°	502.5	491.0	453.8	417.9	406.4
57.5°	445.9	433.0	400.7	368.4	357.0
60°	392.8	379.9	348.4	321.9	314.7
62.5°	344.8	330.5	302.5	281.7	276.7
65°	296.0	286.7	262.4	247.3	244.4
67.5°	255.2	243.7	224.4	217.2	215.8
70°	217.9	210.0	193.5	191.4	191.4
72.5°	184.2	177.8	165.6	167.0	169.2
75°	154.1	149.8	142.6	145.5	149.8
77.5°	128.3	124.0	119.7	124.0	126.9
80°	103.9	99.6	98.9	102.5	104.7
82.5°	78.1	74.6	75.3	81.0	83.2
85°	54.5	52.3	50.9	57.3	58.1
87.5°	28.0	26.5	25.8	30.8	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)