

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: P293352

Luminaire Tested: **24GR-LD5-38-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-F125-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3292.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

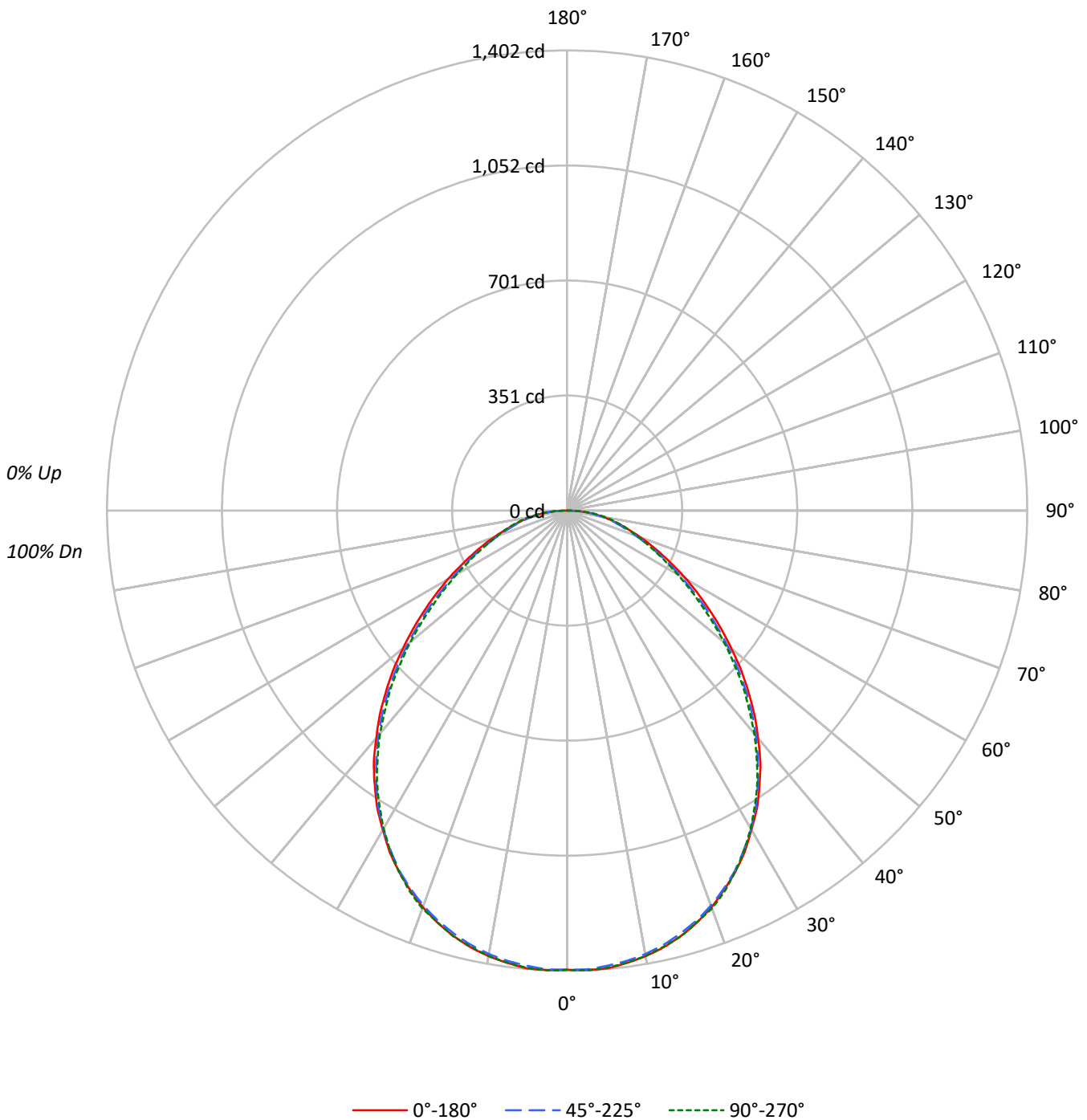
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1882	1882	1882
5°	1891	1881	1888
10°	1883	1874	1883
15°	1869	1859	1870
20°	1841	1834	1847
25°	1801	1797	1801
30°	1744	1741	1737
35°	1679	1666	1659
40°	1589	1571	1558
45°	1486	1459	1441
50°	1366	1329	1307
55°	1246	1200	1165
60°	1131	1070	1043
65°	1019	961	945
70°	933	873	897
75°	872	832	894
80°	865	849	933
85°	881	889	1017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	4.0
10°-20°	376.4	11.4
20°-30°	556.1	16.9
30°-40°	632.3	19.2
40°-50°	590.5	17.9
50°-60°	459.2	13.9
60°-70°	304.7	9.3
70°-80°	176.3	5.4
80°-90°	64.1	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°	1065.0	32.4
0°-40°	1697.3	51.6
0°-60°	2746.9	83.4
0°-90°	3292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1400	1393	1392	1395	1398	133
15°	1342	1335	1334	1334	1342	378
25°	1213	1208	1210	1208	1213	558
35°	1022	1017	1014	1007	1010	638
45°	781	775	767	757	757	602
55°	531	523	512	498	497	476
65°	320	310	302	296	297	320
75°	168	164	160	167	172	179
85°	57	56	58	65	66	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.1	1399.1	1399.1	1399.1	1399.1
2.5°	1401.2	1397.0	1399.1	1397.6	1402.2
5°	1400.1	1392.9	1392.4	1395.0	1398.1
7.5°	1390.4	1382.6	1384.2	1384.2	1389.3
10°	1378.5	1370.8	1371.8	1372.3	1378.0
12.5°	1362.6	1354.8	1355.4	1354.8	1360.5
15°	1341.5	1334.8	1334.3	1333.7	1342.5
17.5°	1315.7	1306.5	1309.6	1310.1	1314.7
20°	1285.9	1278.7	1280.7	1280.2	1290.0
22.5°	1250.4	1245.2	1246.8	1245.8	1255.0
25°	1213.3	1208.2	1210.3	1207.7	1212.8
27.5°	1171.7	1168.1	1166.0	1164.5	1168.1
30°	1122.8	1120.7	1120.7	1114.0	1118.1
32.5°	1076.5	1069.8	1069.8	1067.2	1064.6
35°	1021.9	1016.8	1014.2	1007.0	1010.1
37.5°	967.4	955.5	954.5	948.9	948.9
40°	904.6	897.9	894.3	888.1	887.1
42.5°	844.9	838.2	832.1	821.8	819.7
45°	781.1	774.9	766.7	756.9	757.4
47.5°	717.8	709.1	701.4	689.5	688.0
50°	652.5	646.3	635.0	624.7	624.2
52.5°	591.2	581.5	571.2	558.8	558.8
55°	531.0	523.3	511.5	498.1	496.6
57.5°	473.4	466.2	452.8	443.0	440.5
60°	420.4	410.1	397.8	389.5	387.5
62.5°	367.4	358.1	348.9	340.6	340.1
65°	320.1	310.3	302.0	296.4	296.9
67.5°	277.4	269.1	259.9	258.3	258.8
70°	237.2	228.5	221.8	225.4	228.0
72.5°	199.1	194.5	189.9	195.0	198.6
75°	167.7	163.6	160.0	167.2	171.9
77.5°	138.9	135.8	135.3	141.5	145.6
80°	111.7	108.1	109.6	116.8	120.4
82.5°	84.9	82.3	82.8	91.6	94.2
85°	57.1	56.1	57.6	65.3	65.9
87.5°	30.4	30.4	31.4	36.0	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)