

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: P293174

Luminaire Tested: **24GR-LD5-38-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293174
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-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4079.0 lumens
Efficiency: N/A
Efficacy: 153.4 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

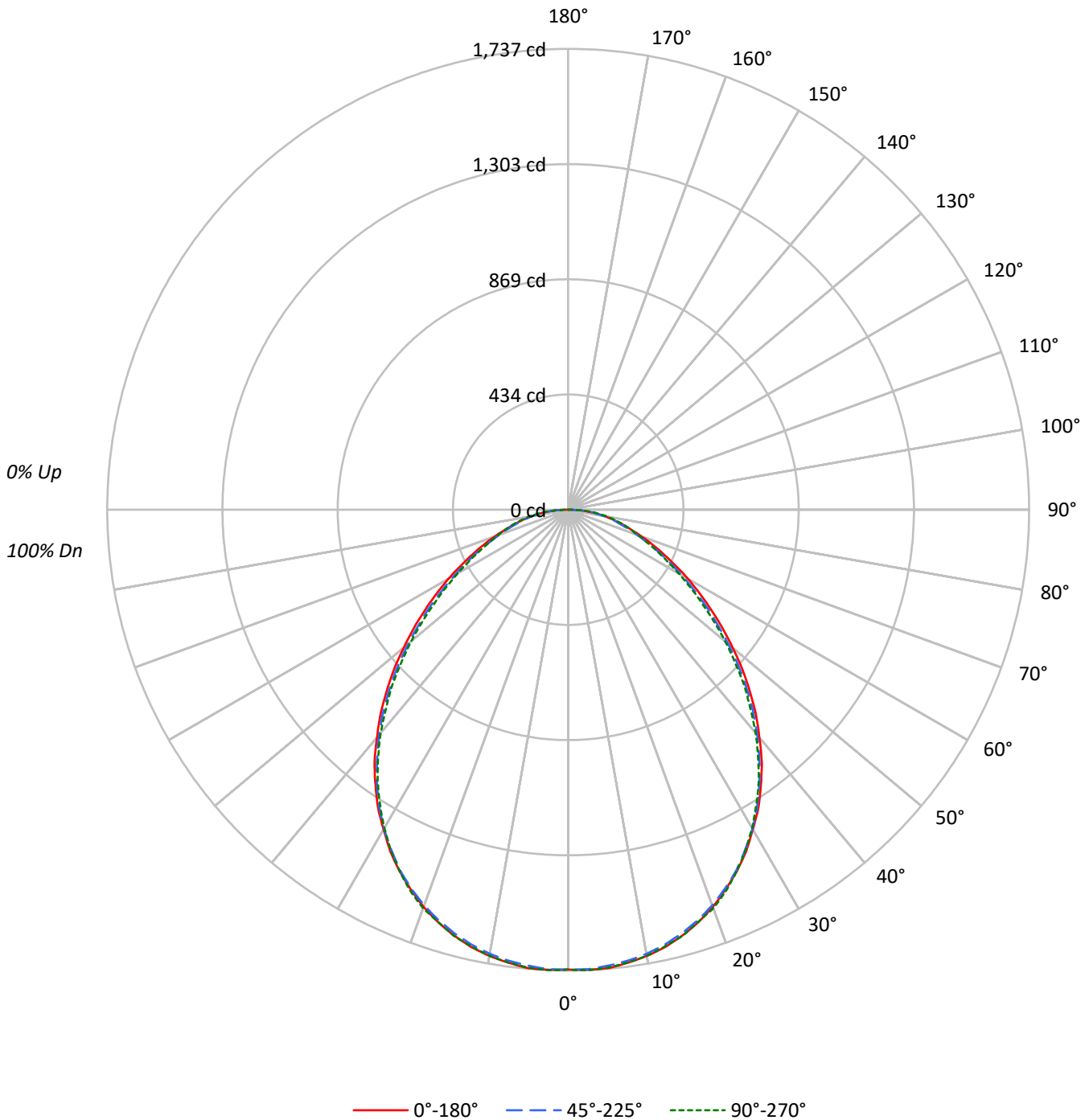
Input Watts (W): 26.598
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	2333	2333	2333
5°	2343	2330	2340
10°	2334	2322	2333
15°	2315	2303	2317
20°	2281	2272	2289
25°	2232	2226	2231
30°	2161	2157	2153
35°	2080	2064	2056
40°	1969	1946	1931
45°	1842	1808	1786
50°	1692	1647	1619
55°	1544	1487	1443
60°	1402	1326	1292
65°	1263	1192	1171
70°	1156	1081	1111
75°	1081	1031	1107
80°	1072	1052	1156
85°	1093	1102	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	4.0
10°-20°	466.4	11.4
20°-30°	689.1	16.9
30°-40°	783.4	19.2
40°-50°	731.6	17.9
50°-60°	569.0	13.9
60°-70°	377.5	9.3
70°-80°	218.5	5.4
80°-90°	79.4	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°	1319.6	32.4
0°-40°	2103.0	51.6
0°-60°	3403.6	83.4
0°-90°	4079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1735	1726	1725	1728	1732	165
15°	1662	1654	1653	1653	1663	468
25°	1503	1497	1500	1496	1503	691
35°	1266	1260	1257	1248	1252	791
45°	968	960	950	938	938	746
55°	658	648	634	617	615	590
65°	397	384	374	367	368	396
75°	208	203	198	207	213	222
85°	71	70	71	81	82	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1733.6	1733.6	1733.6	1733.6	1733.6
2.5°	1736.1	1731.0	1733.6	1731.7	1737.4
5°	1734.8	1725.9	1725.3	1728.5	1732.3
7.5°	1722.7	1713.2	1715.1	1715.1	1721.5
10°	1708.1	1698.5	1699.8	1700.4	1707.4
12.5°	1688.3	1678.7	1679.4	1678.7	1685.8
15°	1662.2	1653.9	1653.2	1652.6	1663.4
17.5°	1630.3	1618.8	1622.6	1623.3	1629.0
20°	1593.3	1584.4	1586.9	1586.3	1598.4
22.5°	1549.3	1542.9	1544.9	1543.6	1555.1
25°	1503.4	1497.0	1499.6	1496.4	1502.8
27.5°	1451.8	1447.3	1444.8	1442.8	1447.3
30°	1391.2	1388.6	1388.6	1380.4	1385.5
32.5°	1333.8	1325.5	1325.5	1322.3	1319.1
35°	1266.2	1259.9	1256.7	1247.7	1251.6
37.5°	1198.6	1184.0	1182.7	1175.7	1175.7
40°	1120.9	1112.6	1108.1	1100.5	1099.2
42.5°	1046.9	1038.6	1031.0	1018.2	1015.7
45°	967.8	960.2	950.0	937.9	938.5
47.5°	889.4	878.6	869.0	854.4	852.4
50°	808.4	800.8	786.8	774.0	773.4
52.5°	732.6	720.5	707.7	692.4	692.4
55°	658.0	648.4	633.8	617.2	615.3
57.5°	586.6	577.6	561.1	549.0	545.8
60°	520.9	508.1	492.8	482.6	480.1
62.5°	455.2	443.8	432.3	422.1	421.4
65°	396.6	384.5	374.3	367.2	367.9
67.5°	343.7	333.5	322.0	320.1	320.7
70°	293.9	283.1	274.8	279.3	282.4
72.5°	246.7	241.0	235.3	241.6	246.1
75°	207.9	202.7	198.3	207.2	213.0
77.5°	172.1	168.3	167.7	175.3	180.4
80°	138.4	133.9	135.8	144.7	149.2
82.5°	105.2	102.0	102.7	113.5	116.7
85°	70.8	69.5	71.4	81.0	81.6
87.5°	37.6	37.6	38.9	44.6	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)