

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: P293353

Luminaire Tested: **24GR-LD5-38-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293353
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3399.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

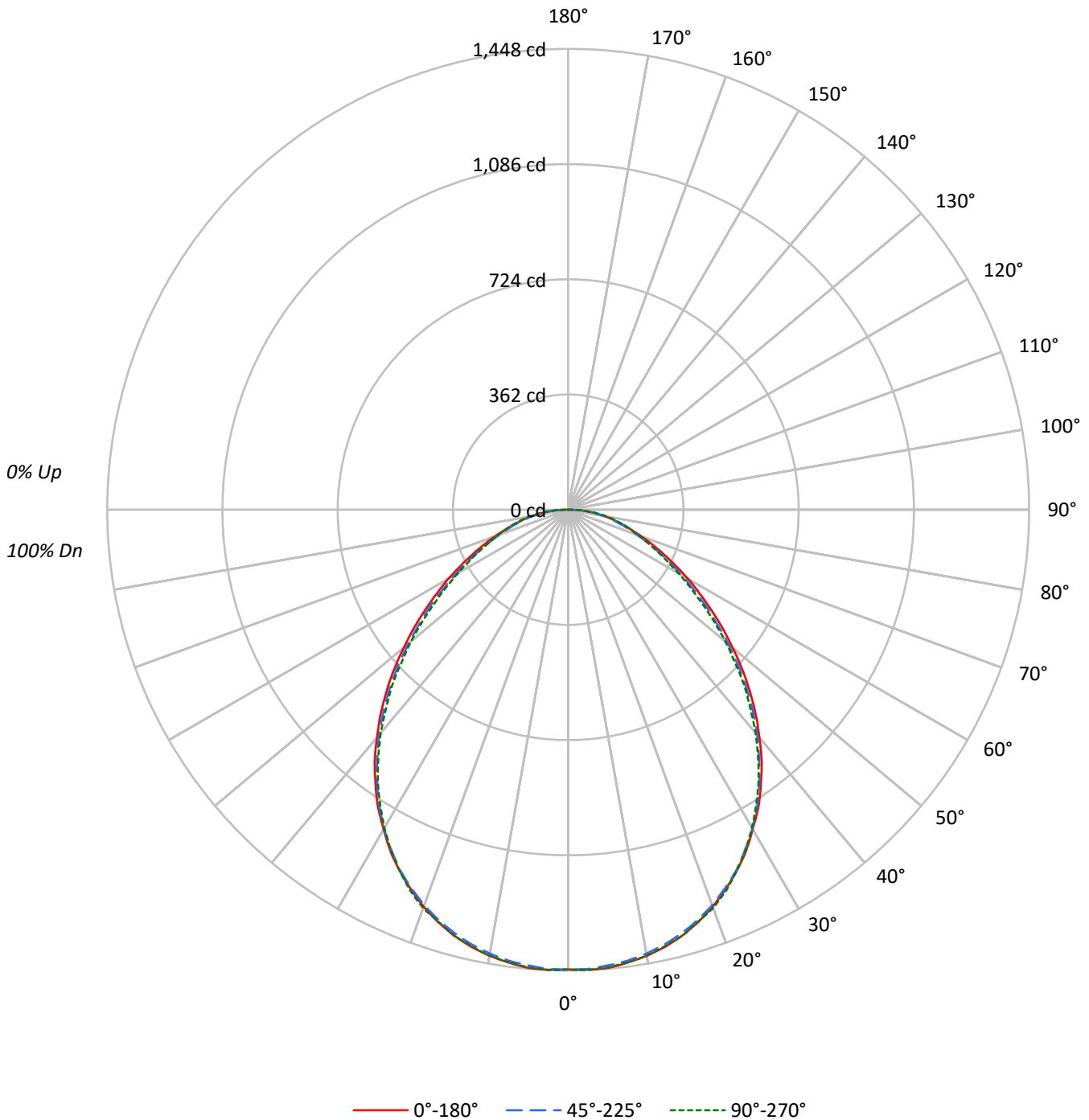
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1944	1944	1944
5°	1952	1942	1950
10°	1945	1935	1944
15°	1929	1919	1931
20°	1901	1893	1907
25°	1860	1855	1859
30°	1801	1798	1794
35°	1733	1720	1713
40°	1640	1622	1609
45°	1535	1506	1488
50°	1410	1372	1349
55°	1286	1239	1203
60°	1168	1105	1077
65°	1052	993	976
70°	963	901	926
75°	900	859	923
80°	893	877	963
85°	911	919	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	4.0
10°-20°	388.7	11.4
20°-30°	574.2	16.9
30°-40°	652.8	19.2
40°-50°	609.6	17.9
50°-60°	474.1	13.9
60°-70°	314.6	9.3
70°-80°	182.0	5.4
80°-90°	66.2	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°	1099.6	32.4
0°-40°	1752.4	51.6
0°-60°	2836.2	83.4
0°-90°	3399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1446	1438	1438	1440	1444	137
15°	1385	1378	1378	1377	1386	390
25°	1253	1248	1250	1247	1252	576
35°	1055	1050	1047	1040	1043	659
45°	806	800	792	782	782	621
55°	548	540	528	514	513	492
65°	330	320	312	306	307	330
75°	173	169	165	173	178	185
85°	59	58	60	68	68	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.6	1444.6	1444.6	1444.6	1444.6
2.5°	1446.7	1442.4	1444.6	1443.0	1447.8
5°	1445.6	1438.2	1437.7	1440.3	1443.5
7.5°	1435.5	1427.6	1429.2	1429.2	1434.5
10°	1423.3	1415.4	1416.4	1416.9	1422.8
12.5°	1406.9	1398.9	1399.4	1398.9	1404.7
15°	1385.1	1378.2	1377.6	1377.1	1386.1
17.5°	1358.5	1348.9	1352.1	1352.7	1357.4
20°	1327.7	1320.3	1322.4	1321.8	1331.9
22.5°	1291.0	1285.7	1287.3	1286.3	1295.8
25°	1252.8	1247.5	1249.6	1246.9	1252.2
27.5°	1209.7	1206.0	1203.9	1202.3	1206.0
30°	1159.3	1157.1	1157.1	1150.2	1154.5
32.5°	1111.5	1104.5	1104.5	1101.9	1099.2
35°	1055.1	1049.8	1047.2	1039.7	1042.9
37.5°	998.8	986.6	985.5	979.7	979.7
40°	934.0	927.1	923.4	917.0	915.9
42.5°	872.4	865.5	859.1	848.5	846.3
45°	806.5	800.1	791.6	781.5	782.1
47.5°	741.1	732.1	724.1	711.9	710.3
50°	673.7	667.3	655.6	645.0	644.5
52.5°	610.5	600.4	589.7	577.0	577.0
55°	548.3	540.3	528.1	514.3	512.7
57.5°	488.8	481.3	467.5	457.4	454.8
60°	434.1	423.4	410.7	402.2	400.1
62.5°	379.3	369.8	360.2	351.7	351.2
65°	330.5	320.4	311.9	306.0	306.6
67.5°	286.4	277.9	268.3	266.7	267.2
70°	244.9	235.9	229.0	232.7	235.4
72.5°	205.6	200.8	196.0	201.4	205.1
75°	173.2	168.9	165.2	172.7	177.5
77.5°	143.4	140.3	139.7	146.1	150.4
80°	115.3	111.6	113.2	120.6	124.3
82.5°	87.7	85.0	85.5	94.6	97.2
85°	59.0	57.9	59.5	67.5	68.0
87.5°	31.3	31.3	32.4	37.2	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)