

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: P293105

Luminaire Tested: **24GR-LD5-38-F1-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-F1-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3628.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

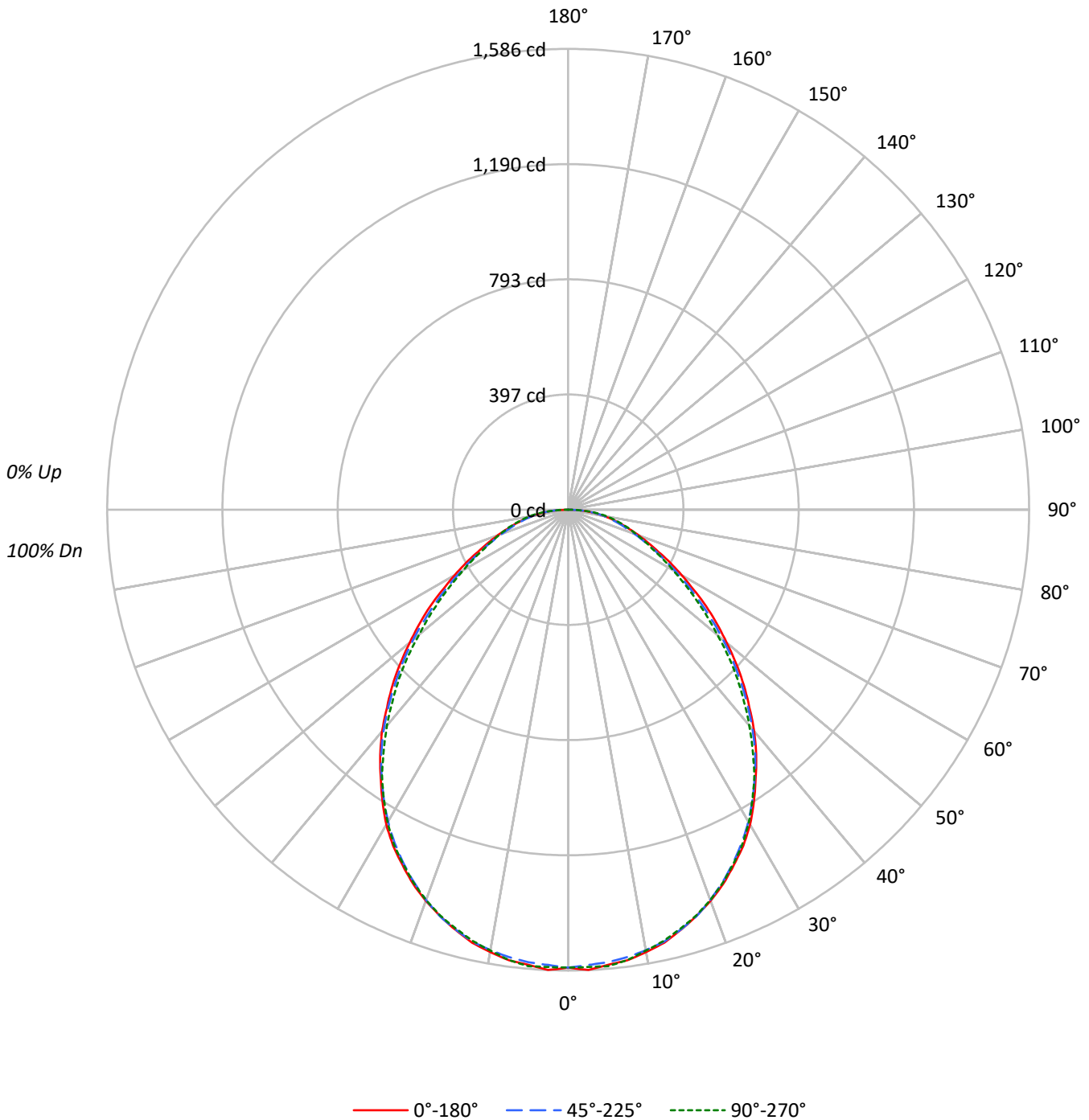
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	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	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2120	2120	2120
5°	2123	2111	2130
10°	2112	2103	2105
15°	2086	2084	2078
20°	2051	2047	2047
25°	2003	1992	1996
30°	1945	1925	1931
35°	1847	1839	1834
40°	1749	1734	1703
45°	1626	1598	1566
50°	1490	1457	1402
55°	1360	1299	1255
60°	1212	1154	1124
65°	1091	1034	1020
70°	1013	951	989
75°	968	926	1004
80°	969	969	1072
85°	1005	1017	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	4.1
10°-20°	421.2	11.6
20°-30°	618.1	17.0
30°-40°	698.8	19.3
40°-50°	645.9	17.8
50°-60°	497.6	13.7
60°-70°	329.5	9.1
70°-80°	196.2	5.4
80°-90°	71.9	2.0
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°	1188.1	32.7
0°-40°	1887.0	52.0
0°-60°	3030.5	83.5
0°-90°	3628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1572	1572	1563	1564	1577	149
15°	1497	1494	1496	1495	1492	422
25°	1349	1345	1342	1340	1345	621
35°	1125	1123	1120	1114	1116	704
45°	855	849	840	825	823	658
55°	580	568	554	539	535	517
65°	343	338	325	322	320	344
75°	186	182	178	186	193	199
85°	65	61	66	73	73	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1575.9	1575.9	1575.9	1575.9	1575.9
2.5°	1585.6	1577.4	1568.4	1568.4	1575.2
5°	1572.2	1572.2	1563.2	1563.9	1576.7
7.5°	1563.9	1559.5	1553.5	1553.5	1563.2
10°	1546.0	1542.2	1539.3	1537.8	1540.7
12.5°	1526.5	1520.5	1522.8	1520.5	1519.8
15°	1497.3	1494.4	1495.8	1495.1	1492.1
17.5°	1465.9	1464.4	1467.4	1462.2	1464.4
20°	1432.2	1427.8	1429.3	1426.3	1429.3
22.5°	1394.1	1391.1	1387.3	1383.6	1389.6
25°	1349.2	1345.4	1341.7	1340.2	1344.7
27.5°	1304.3	1298.3	1293.1	1291.6	1298.3
30°	1251.9	1245.2	1239.2	1237.7	1242.9
32.5°	1189.8	1188.3	1180.8	1177.8	1180.1
35°	1124.7	1123.2	1119.5	1114.2	1116.5
37.5°	1062.6	1061.8	1056.6	1047.6	1041.6
40°	996.0	990.7	987.0	974.3	969.8
42.5°	922.7	921.2	914.4	900.2	895.0
45°	854.6	848.6	839.6	824.6	823.1
47.5°	784.2	776.0	767.8	749.0	748.3
50°	711.6	705.6	695.9	677.2	669.7
52.5°	644.3	636.1	622.6	604.6	600.9
55°	579.9	568.0	553.7	538.8	535.0
57.5°	511.1	505.8	488.6	476.7	472.2
60°	450.5	446.0	428.8	417.6	417.6
62.5°	395.9	389.1	374.1	366.7	366.7
65°	342.7	337.5	324.8	321.8	320.3
67.5°	297.1	290.3	281.4	280.6	284.4
70°	257.4	249.2	241.7	249.2	251.4
72.5°	220.0	214.8	208.0	217.8	222.2
75°	186.3	181.8	178.1	186.3	193.1
77.5°	155.6	151.2	151.2	160.1	166.1
80°	125.0	122.0	125.0	132.4	138.4
82.5°	95.8	93.5	97.3	104.8	108.5
85°	65.1	61.4	65.9	72.6	73.3
87.5°	30.7	29.9	32.9	37.4	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)