

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: P293100

Luminaire Tested: **24GR-LD5-38-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293100
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 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): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

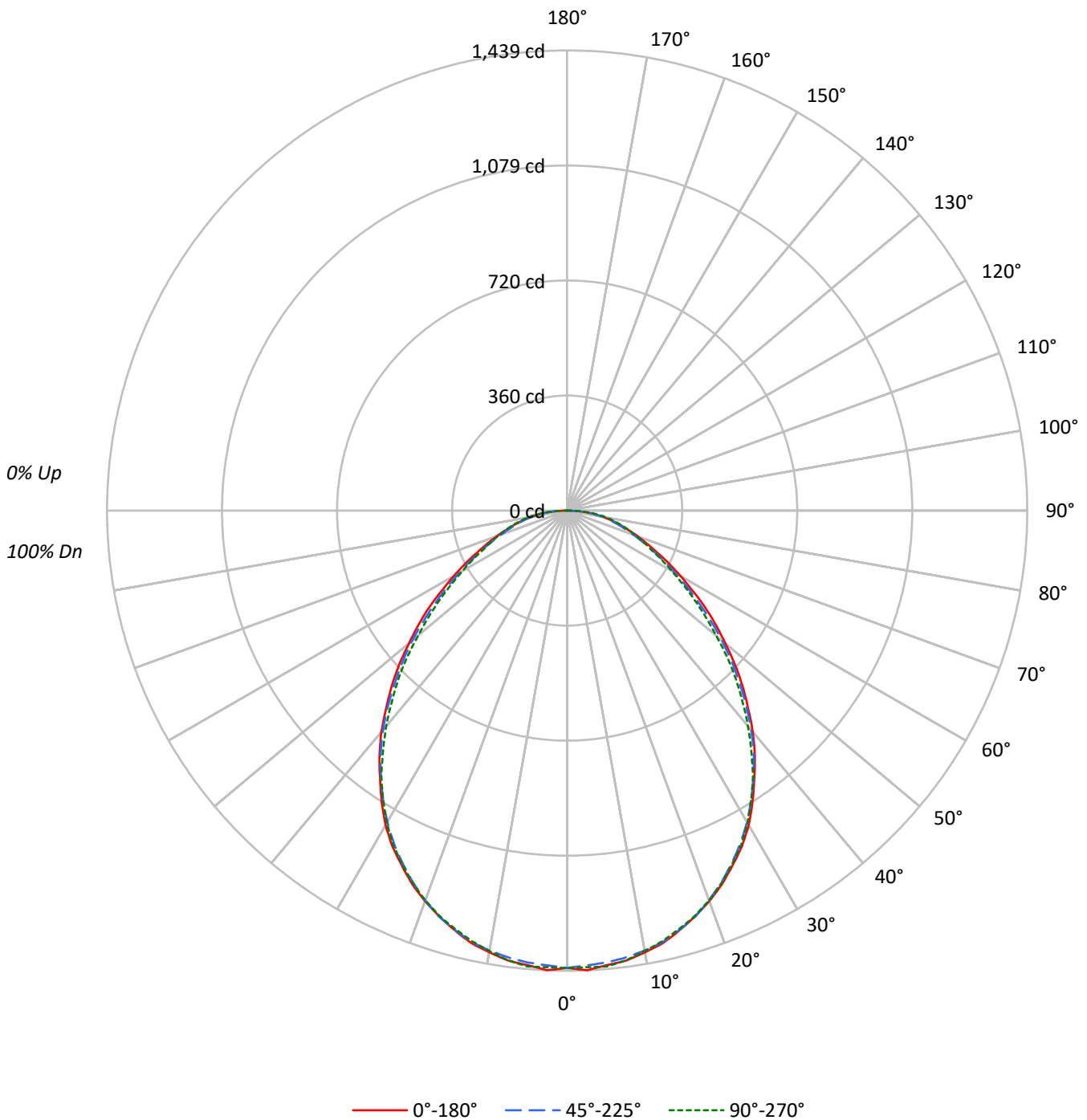
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					72				
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64					62				
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56					54				
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44					42				
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39					37				
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1924	1924	1924
5°	1927	1916	1932
10°	1917	1908	1910
15°	1893	1891	1886
20°	1861	1857	1857
25°	1817	1807	1811
30°	1765	1747	1752
35°	1676	1668	1664
40°	1587	1573	1546
45°	1475	1450	1421
50°	1352	1322	1272
55°	1234	1179	1139
60°	1100	1047	1020
65°	990	938	925
70°	919	863	897
75°	879	840	911
80°	879	879	973
85°	912	923	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	4.1
10°-20°	382.2	11.6
20°-30°	560.9	17.0
30°-40°	634.1	19.3
40°-50°	586.1	17.8
50°-60°	451.5	13.7
60°-70°	299.0	9.1
70°-80°	178.0	5.4
80°-90°	65.2	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°	1078.1	32.7
0°-40°	1712.2	52.0
0°-60°	2749.8	83.5
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°	1430	1430	1430	1430	1430	
5°	1427	1427	1418	1419	1431	136
15°	1359	1356	1357	1357	1354	383
25°	1224	1221	1217	1216	1220	564
35°	1020	1019	1016	1011	1013	639
45°	775	770	762	748	747	597
55°	526	515	502	489	486	469
65°	311	306	295	292	291	312
75°	169	165	162	169	175	180
85°	59	56	60	66	66	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.0	1430.0	1430.0	1430.0	1430.0
2.5°	1438.8	1431.3	1423.2	1423.2	1429.3
5°	1426.6	1426.6	1418.4	1419.1	1430.6
7.5°	1419.1	1415.0	1409.6	1409.6	1418.4
10°	1402.8	1399.4	1396.7	1395.3	1398.1
12.5°	1385.2	1379.7	1381.8	1379.7	1379.0
15°	1358.7	1356.0	1357.3	1356.6	1353.9
17.5°	1330.2	1328.8	1331.5	1326.8	1328.8
20°	1299.6	1295.5	1296.9	1294.2	1296.9
22.5°	1265.0	1262.3	1258.9	1255.5	1260.9
25°	1224.2	1220.8	1217.4	1216.1	1220.2
27.5°	1183.5	1178.1	1173.3	1171.9	1178.1
30°	1136.0	1129.9	1124.4	1123.1	1127.8
32.5°	1079.6	1078.2	1071.5	1068.7	1070.8
35°	1020.5	1019.2	1015.8	1011.0	1013.1
37.5°	964.2	963.5	958.7	950.6	945.2
40°	903.7	899.0	895.6	884.1	880.0
42.5°	837.2	835.8	829.7	816.8	812.1
45°	775.4	770.0	761.8	748.3	746.9
47.5°	711.6	704.1	696.7	679.7	679.0
50°	645.7	640.3	631.5	614.5	607.7
52.5°	584.6	577.1	564.9	548.6	545.2
55°	526.2	515.4	502.5	488.9	485.5
57.5°	463.8	459.0	443.4	432.5	428.4
60°	408.8	404.7	389.1	378.9	378.9
62.5°	359.2	353.1	339.5	332.7	332.7
65°	311.0	306.2	294.7	292.0	290.6
67.5°	269.6	263.5	255.3	254.6	258.0
70°	233.6	226.1	219.3	226.1	228.1
72.5°	199.6	194.9	188.8	197.6	201.7
75°	169.1	165.0	161.6	169.1	175.2
77.5°	141.2	137.2	137.2	145.3	150.7
80°	113.4	110.7	113.4	120.2	125.6
82.5°	86.9	84.9	88.3	95.1	98.5
85°	59.1	55.7	59.8	65.9	66.5
87.5°	27.8	27.2	29.9	33.9	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)