

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: P293107

Luminaire Tested: **24GR-LD5-42-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293107
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-LD5-42-F1-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3285.0 lumens
Efficiency: N/A
Efficacy: 117.7 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

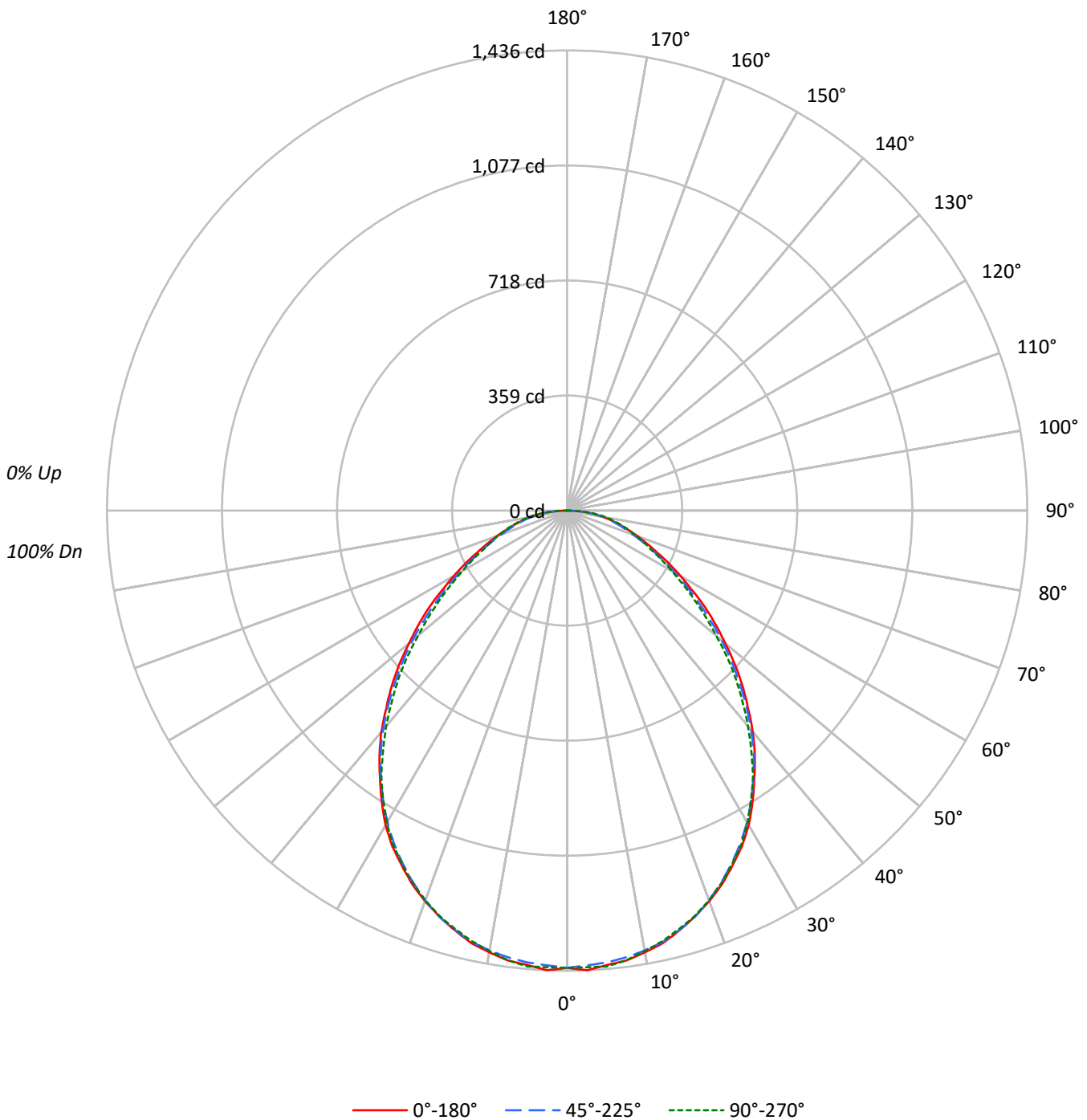
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1920	1920	1920
5°	1923	1912	1928
10°	1912	1904	1906
15°	1889	1887	1882
20°	1857	1853	1853
25°	1814	1804	1808
30°	1761	1743	1748
35°	1673	1665	1660
40°	1584	1570	1542
45°	1472	1447	1418
50°	1349	1319	1269
55°	1232	1176	1137
60°	1098	1045	1017
65°	988	936	923
70°	917	861	896
75°	877	839	909
80°	877	877	971
85°	909	920	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	4.1
10°-20°	381.4	11.6
20°-30°	559.7	17.0
30°-40°	632.8	19.3
40°-50°	584.8	17.8
50°-60°	450.6	13.7
60°-70°	298.4	9.1
70°-80°	177.6	5.4
80°-90°	65.1	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°	1075.8	32.7
0°-40°	1708.6	52.0
0°-60°	2744.0	83.5
0°-90°	3285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1424	1424	1415	1416	1428	135
15°	1356	1353	1354	1354	1351	382
25°	1222	1218	1215	1214	1218	562
35°	1018	1017	1014	1009	1011	637
45°	774	768	760	747	745	596
55°	525	514	501	488	484	468
65°	310	306	294	291	290	311
75°	169	165	161	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°	1426.9	1426.9	1426.9	1426.9	1426.9
2.5°	1435.7	1428.3	1420.2	1420.2	1426.2
5°	1423.5	1423.5	1415.4	1416.1	1427.6
7.5°	1416.1	1412.0	1406.6	1406.6	1415.4
10°	1399.8	1396.4	1393.7	1392.4	1395.1
12.5°	1382.2	1376.8	1378.8	1376.8	1376.1
15°	1355.8	1353.1	1354.4	1353.8	1351.0
17.5°	1327.3	1326.0	1328.7	1323.9	1326.0
20°	1296.8	1292.8	1294.1	1291.4	1294.1
22.5°	1262.3	1259.6	1256.2	1252.8	1258.2
25°	1221.6	1218.2	1214.9	1213.5	1217.6
27.5°	1181.0	1175.6	1170.8	1169.5	1175.6
30°	1133.5	1127.4	1122.0	1120.7	1125.4
32.5°	1077.3	1076.0	1069.2	1066.5	1068.5
35°	1018.4	1017.0	1013.6	1008.9	1010.9
37.5°	962.1	961.4	956.7	948.6	943.2
40°	901.8	897.1	893.7	882.2	878.1
42.5°	835.4	834.1	828.0	815.1	810.4
45°	773.8	768.3	760.2	746.7	745.3
47.5°	710.1	702.6	695.2	678.2	677.6
50°	644.4	638.9	630.1	613.2	606.4
52.5°	583.4	575.9	563.7	547.5	544.1
55°	525.1	514.3	501.4	487.8	484.5
57.5°	462.8	458.0	442.4	431.6	427.5
60°	407.9	403.8	388.2	378.1	378.1
62.5°	358.4	352.3	338.8	332.0	332.0
65°	310.3	305.6	294.1	291.3	290.0
67.5°	269.0	262.9	254.8	254.1	257.5
70°	233.1	225.6	218.8	225.6	227.7
72.5°	199.2	194.5	188.4	197.2	201.2
75°	168.7	164.6	161.3	168.7	174.8
77.5°	140.9	136.9	136.9	145.0	150.4
80°	113.2	110.4	113.2	119.9	125.3
82.5°	86.7	84.7	88.1	94.9	98.2
85°	58.9	55.6	59.6	65.7	66.4
87.5°	27.8	27.1	29.8	33.9	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)