

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: P293603

Luminaire Tested: **24GR-LD5-38-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3172.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

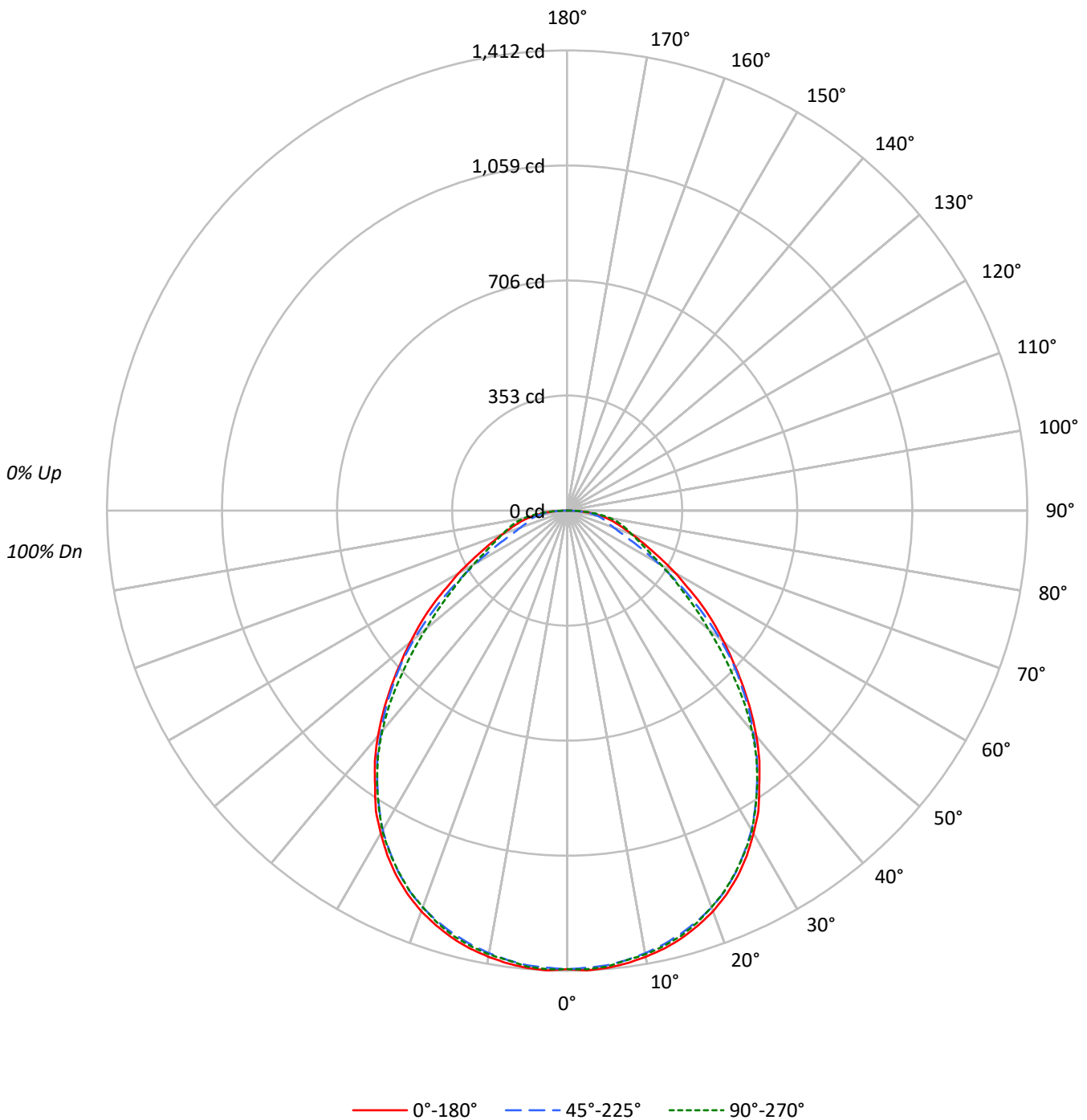
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1894	1894	1894
5°	1903	1892	1897
10°	1899	1884	1889
15°	1892	1873	1881
20°	1874	1855	1855
25°	1838	1818	1817
30°	1777	1759	1762
35°	1688	1668	1671
40°	1587	1560	1550
45°	1455	1435	1378
50°	1315	1279	1183
55°	1181	1075	1020
60°	1034	865	897
65°	902	680	825
70°	825	594	825
75°	826	632	909
80°	896	744	1037
85°	983	840	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	4.2
10°-20°	380.3	12.0
20°-30°	564.0	17.8
30°-40°	636.2	20.1
40°-50°	576.2	18.2
50°-60°	415.7	13.1
60°-70°	248.2	7.8
70°-80°	153.4	4.8
80°-90°	64.6	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°	1077.6	34.0
0°-40°	1713.8	54.0
0°-60°	2705.7	85.3
0°-90°	3172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1409	1407	1401	1400	1404	134
15°	1358	1350	1345	1345	1350	383
25°	1238	1231	1225	1220	1224	569
35°	1028	1026	1016	1016	1017	643
45°	764	760	754	736	724	589
55°	503	488	458	436	435	449
65°	283	249	214	243	259	285
75°	159	138	122	151	175	170
85°	64	56	54	71	72	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.4	1407.4	1407.4	1407.4	1407.4
2.5°	1412.3	1408.4	1403.5	1406.4	1408.8
5°	1408.8	1406.9	1401.0	1399.5	1404.4
7.5°	1401.5	1396.6	1391.2	1393.7	1391.7
10°	1390.2	1385.8	1379.0	1379.4	1382.9
12.5°	1376.5	1371.1	1363.8	1365.7	1368.7
15°	1358.4	1350.0	1344.7	1345.1	1350.5
17.5°	1335.3	1329.0	1322.1	1323.6	1326.0
20°	1308.9	1305.5	1295.7	1292.7	1295.2
22.5°	1275.6	1269.2	1263.8	1262.3	1262.8
25°	1237.8	1231.0	1224.6	1220.2	1223.6
27.5°	1193.7	1187.8	1179.5	1178.0	1181.0
30°	1143.7	1139.3	1132.0	1130.0	1134.4
32.5°	1092.8	1085.4	1075.1	1075.1	1076.1
35°	1027.6	1026.1	1015.8	1016.3	1017.3
37.5°	968.8	961.9	956.1	950.2	953.1
40°	903.6	895.8	887.9	884.0	882.6
42.5°	833.5	827.7	824.2	810.0	806.6
45°	764.5	759.6	754.2	735.5	724.3
47.5°	693.9	692.9	688.5	655.7	644.4
50°	628.2	626.8	611.1	576.3	565.0
52.5°	566.0	556.2	535.6	501.3	499.3
55°	503.3	487.6	458.2	435.6	434.7
57.5°	437.1	418.5	388.6	376.3	382.7
60°	384.2	355.8	321.5	322.9	333.2
62.5°	329.3	297.5	263.6	278.3	290.6
65°	283.2	249.4	213.7	242.6	259.2
67.5°	243.1	211.7	177.4	216.1	232.3
70°	209.7	184.3	150.9	191.6	209.7
72.5°	183.3	159.8	133.8	172.0	193.1
75°	158.8	137.7	121.5	151.4	174.9
77.5°	137.7	117.1	109.8	133.8	156.8
80°	115.6	97.0	96.0	116.6	133.8
82.5°	90.2	77.4	77.4	97.5	107.8
85°	63.7	55.9	54.4	71.1	72.0
87.5°	32.8	31.4	28.4	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)