

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: P293605

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293605
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3438.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

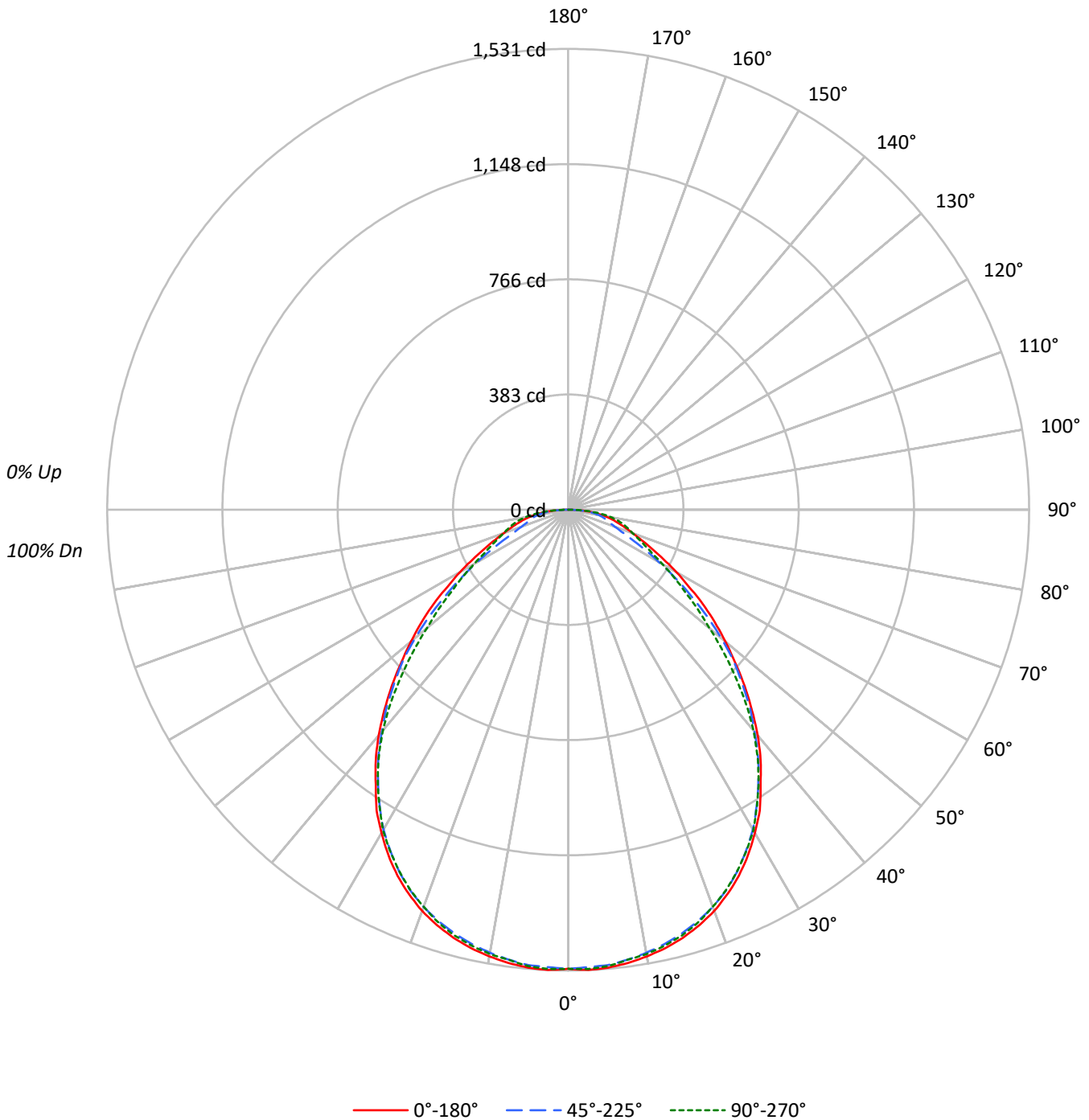
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2052	2052	2052
5°	2062	2051	2056
10°	2059	2042	2048
15°	2051	2030	2039
20°	2031	2011	2010
25°	1992	1970	1969
30°	1926	1906	1910
35°	1829	1808	1811
40°	1720	1690	1680
45°	1577	1555	1494
50°	1425	1386	1282
55°	1280	1165	1105
60°	1121	938	972
65°	977	737	895
70°	894	644	894
75°	895	685	986
80°	971	807	1124
85°	1065	911	1206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	4.2
10°-20°	412.2	12.0
20°-30°	611.3	17.8
30°-40°	689.6	20.1
40°-50°	624.5	18.2
50°-60°	450.6	13.1
60°-70°	269.0	7.8
70°-80°	166.3	4.8
80°-90°	70.0	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°	1167.9	34.0
0°-40°	1857.5	54.0
0°-60°	2932.6	85.3
0°-90°	3438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1527	1525	1518	1517	1522	145
15°	1472	1463	1457	1458	1464	415
25°	1342	1334	1327	1322	1326	616
35°	1114	1112	1101	1102	1103	697
45°	829	823	817	797	785	639
55°	546	528	497	472	471	487
65°	307	270	232	263	281	309
75°	172	149	132	164	190	184
85°	69	60	59	77	78	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.4	1525.4	1525.4	1525.4	1525.4
2.5°	1530.7	1526.5	1521.2	1524.3	1527.0
5°	1527.0	1524.9	1518.5	1516.9	1522.2
7.5°	1519.0	1513.7	1507.9	1510.5	1508.4
10°	1506.8	1502.0	1494.6	1495.1	1498.8
12.5°	1491.9	1486.1	1478.1	1480.3	1483.4
15°	1472.3	1463.3	1457.4	1457.9	1463.8
17.5°	1447.3	1440.4	1433.0	1434.6	1437.2
20°	1418.6	1414.9	1404.3	1401.1	1403.8
22.5°	1382.5	1375.6	1369.8	1368.2	1368.7
25°	1341.6	1334.2	1327.3	1322.5	1326.2
27.5°	1293.8	1287.5	1278.4	1276.8	1280.0
30°	1239.7	1234.9	1226.9	1224.8	1229.6
32.5°	1184.4	1176.4	1165.3	1165.3	1166.4
35°	1113.8	1112.2	1101.0	1101.6	1102.6
37.5°	1050.0	1042.6	1036.2	1029.9	1033.0
40°	979.4	970.9	962.4	958.2	956.6
42.5°	903.4	897.1	893.4	878.0	874.2
45°	828.6	823.2	817.4	797.2	785.0
47.5°	752.1	751.0	746.2	710.6	698.4
50°	680.9	679.3	662.3	624.6	612.4
52.5°	613.5	602.8	580.5	543.3	541.2
55°	545.5	528.5	496.6	472.2	471.1
57.5°	473.8	453.6	421.2	407.9	414.8
60°	416.4	385.6	348.4	350.0	361.2
62.5°	356.9	322.4	285.7	301.7	315.0
65°	307.0	270.3	231.6	262.9	281.0
67.5°	263.4	229.4	192.3	234.2	251.8
70°	227.3	199.7	163.6	207.7	227.3
72.5°	198.6	173.1	145.0	186.4	209.3
75°	172.1	149.2	131.7	164.1	189.6
77.5°	149.2	126.9	119.0	145.0	170.0
80°	125.3	105.2	104.1	126.4	145.0
82.5°	97.7	83.9	83.9	105.7	116.8
85°	69.0	60.5	59.0	77.0	78.1
87.5°	35.6	34.0	30.8	40.4	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)