

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: P294258

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-FGW080-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4419.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

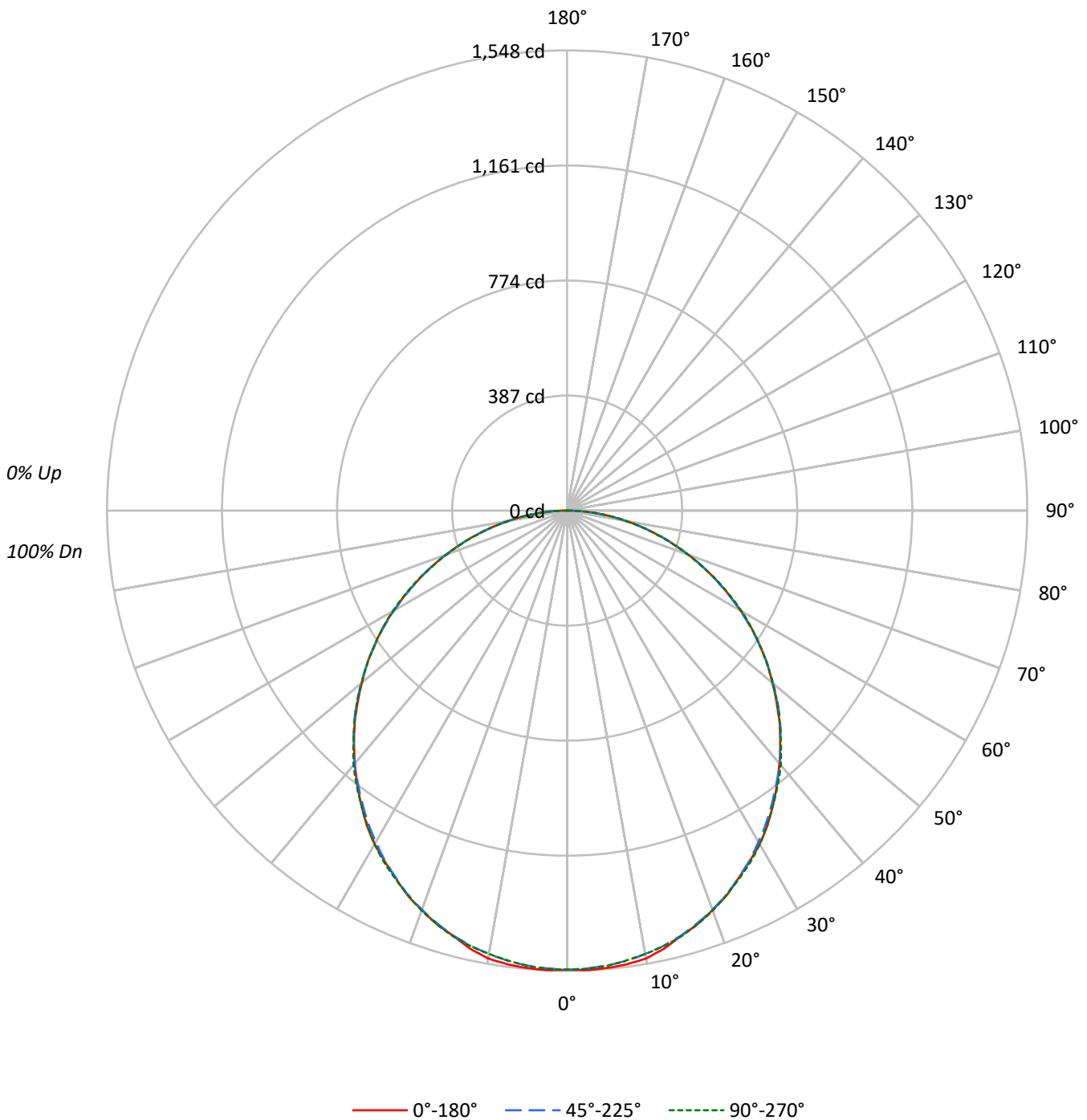
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2078	2078	2078
5°	2086	2075	2076
10°	2090	2069	2069
15°	2063	2061	2066
20°	2047	2046	2050
25°	2025	2024	2030
30°	2013	2000	2014
35°	1984	1974	1984
40°	1951	1953	1964
45°	1924	1929	1925
50°	1887	1894	1889
55°	1858	1853	1858
60°	1815	1809	1826
65°	1758	1765	1772
70°	1701	1710	1697
75°	1642	1642	1642
80°	1550	1550	1567
85°	1433	1448	1400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.3
10°-20°	417.5	9.4
20°-30°	629.1	14.2
30°-40°	753.5	17.1
40°-50°	780.0	17.7
50°-60°	707.3	16.0
60°-70°	548.3	12.4
70°-80°	333.5	7.5
80°-90°	103.7	2.3
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°	1192.7	27.0
0°-40°	1946.2	44.0
0°-60°	3433.5	77.7
0°-90°	4419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1544	1535	1536	1534	1537	147
15°	1481	1482	1480	1475	1483	419
25°	1364	1364	1363	1367	1367	630
35°	1208	1200	1202	1207	1208	756
45°	1011	1013	1014	1010	1012	779
55°	792	788	790	793	792	708
65°	552	556	554	552	556	548
75°	316	315	316	315	316	334
85°	93	92	94	93	91	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.5	1544.5	1544.5	1544.5	1544.5
2.5°	1547.6	1541.4	1541.4	1539.3	1542.4
5°	1544.5	1535.1	1536.2	1534.1	1537.2
7.5°	1539.3	1526.8	1527.8	1525.7	1526.8
10°	1529.9	1515.3	1514.3	1513.2	1514.3
12.5°	1509.1	1500.7	1499.7	1497.6	1500.7
15°	1480.9	1482.0	1479.9	1474.7	1483.0
17.5°	1459.0	1458.0	1455.9	1450.7	1459.0
20°	1429.9	1430.9	1428.8	1426.7	1431.9
22.5°	1401.7	1398.6	1399.6	1398.6	1399.6
25°	1364.2	1364.2	1363.2	1367.3	1367.3
27.5°	1329.8	1325.6	1327.7	1331.9	1334.0
30°	1295.4	1285.0	1287.1	1291.2	1296.5
32.5°	1254.8	1244.3	1246.4	1250.6	1252.7
35°	1207.9	1199.5	1201.6	1206.8	1207.9
37.5°	1159.9	1154.7	1156.8	1161.0	1164.1
40°	1110.9	1108.9	1112.0	1110.9	1118.2
42.5°	1060.9	1059.9	1063.0	1063.0	1064.1
45°	1010.9	1013.0	1014.0	1009.9	1011.9
47.5°	955.7	956.7	960.9	958.8	959.8
50°	901.5	900.4	904.6	905.6	902.5
52.5°	849.4	844.2	848.3	850.4	848.3
55°	792.0	787.9	790.0	793.1	792.0
57.5°	735.8	731.6	732.6	737.9	735.8
60°	674.3	673.2	672.2	676.4	678.5
62.5°	613.8	612.8	610.7	614.9	617.0
65°	552.3	555.5	554.4	552.3	556.5
67.5°	494.0	497.1	494.0	491.9	491.9
70°	432.5	435.6	434.6	432.5	431.5
72.5°	375.2	375.2	373.1	372.1	373.1
75°	315.8	314.7	315.8	314.7	315.8
77.5°	257.4	258.5	258.5	258.5	257.4
80°	200.1	200.1	200.1	201.1	202.2
82.5°	146.9	143.8	146.9	144.9	145.9
85°	92.8	91.7	93.8	92.8	90.7
87.5°	41.7	42.7	42.7	43.8	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)