

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: P294387

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294387
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-LD5-56-FGW080-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4204.0 lumens
Efficiency: N/A
Efficacy: 107.6 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

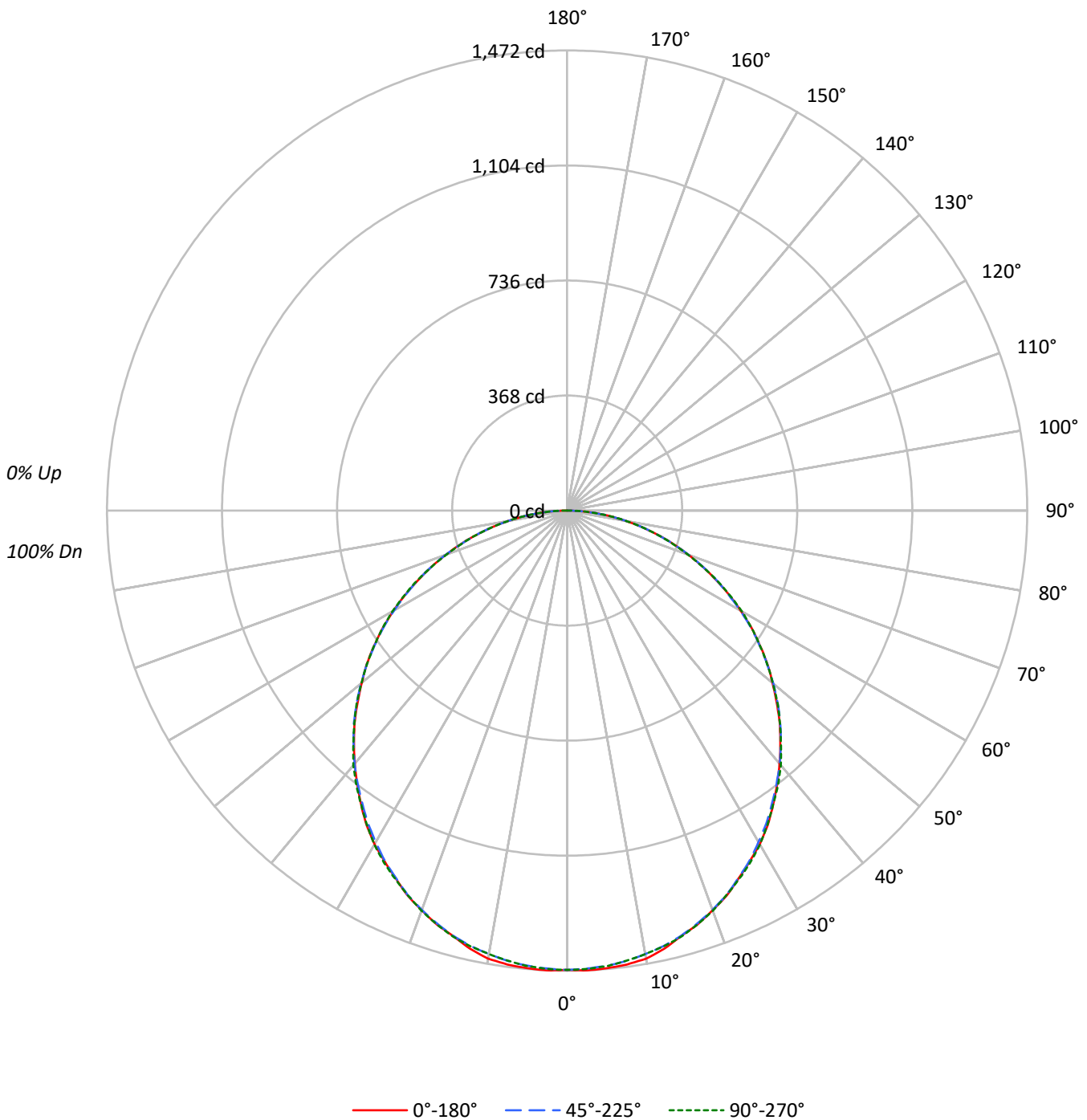
Input Watts (W): 39.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1977	1977	1977
5°	1984	1974	1975
10°	1989	1968	1968
15°	1963	1961	1965
20°	1948	1946	1951
25°	1927	1925	1931
30°	1915	1902	1916
35°	1887	1878	1887
40°	1856	1858	1868
45°	1830	1836	1832
50°	1795	1801	1797
55°	1768	1763	1768
60°	1726	1721	1737
65°	1673	1679	1685
70°	1619	1626	1615
75°	1562	1562	1562
80°	1475	1475	1490
85°	1362	1377	1332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.3
10°-20°	397.2	9.4
20°-30°	598.5	14.2
30°-40°	716.9	17.1
40°-50°	742.1	17.7
50°-60°	672.8	16.0
60°-70°	521.7	12.4
70°-80°	317.2	7.5
80°-90°	98.7	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°	1134.6	27.0
0°-40°	1851.5	44.0
0°-60°	3266.4	77.7
0°-90°	4204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1469	1460	1461	1459	1462	140
15°	1409	1410	1408	1403	1411	398
25°	1298	1298	1297	1301	1301	599
35°	1149	1141	1143	1148	1149	719
45°	962	964	965	961	963	741
55°	754	750	752	754	754	673
65°	526	528	528	526	529	521
75°	300	299	300	299	300	317
85°	88	87	89	88	86	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.3	1469.3	1469.3	1469.3	1469.3
2.5°	1472.3	1466.4	1466.4	1464.4	1467.4
5°	1469.3	1460.4	1461.4	1459.4	1462.4
7.5°	1464.4	1452.5	1453.5	1451.5	1452.5
10°	1455.5	1441.6	1440.6	1439.6	1440.6
12.5°	1435.6	1427.7	1426.7	1424.7	1427.7
15°	1408.9	1409.9	1407.9	1402.9	1410.9
17.5°	1388.0	1387.1	1385.1	1380.1	1388.0
20°	1360.3	1361.3	1359.3	1357.3	1362.3
22.5°	1333.5	1330.5	1331.5	1330.5	1331.5
25°	1297.8	1297.8	1296.8	1300.8	1300.8
27.5°	1265.1	1261.1	1263.1	1267.1	1269.1
30°	1232.4	1222.5	1224.5	1228.4	1233.4
32.5°	1193.7	1183.8	1185.8	1189.8	1191.7
35°	1149.1	1141.2	1143.2	1148.1	1149.1
37.5°	1103.5	1098.5	1100.5	1104.5	1107.5
40°	1056.9	1054.9	1057.9	1056.9	1063.8
42.5°	1009.3	1008.3	1011.3	1011.3	1012.3
45°	961.7	963.7	964.7	960.7	962.7
47.5°	909.2	910.2	914.1	912.1	913.1
50°	857.6	856.6	860.6	861.6	858.6
52.5°	808.0	803.1	807.0	809.0	807.0
55°	753.5	749.5	751.5	754.5	753.5
57.5°	700.0	696.0	697.0	702.0	700.0
60°	641.5	640.5	639.5	643.5	645.4
62.5°	584.0	583.0	581.0	585.0	586.9
65°	525.5	528.4	527.5	525.5	529.4
67.5°	470.0	472.9	470.0	468.0	468.0
70°	411.5	414.4	413.4	411.5	410.5
72.5°	356.9	356.9	354.9	354.0	354.9
75°	300.4	299.4	300.4	299.4	300.4
77.5°	244.9	245.9	245.9	245.9	244.9
80°	190.4	190.4	190.4	191.4	192.3
82.5°	139.8	136.8	139.8	137.8	138.8
85°	88.2	87.2	89.2	88.2	86.3
87.5°	39.7	40.6	40.6	41.6	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)