

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: P294190

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294190
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-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4228.0 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

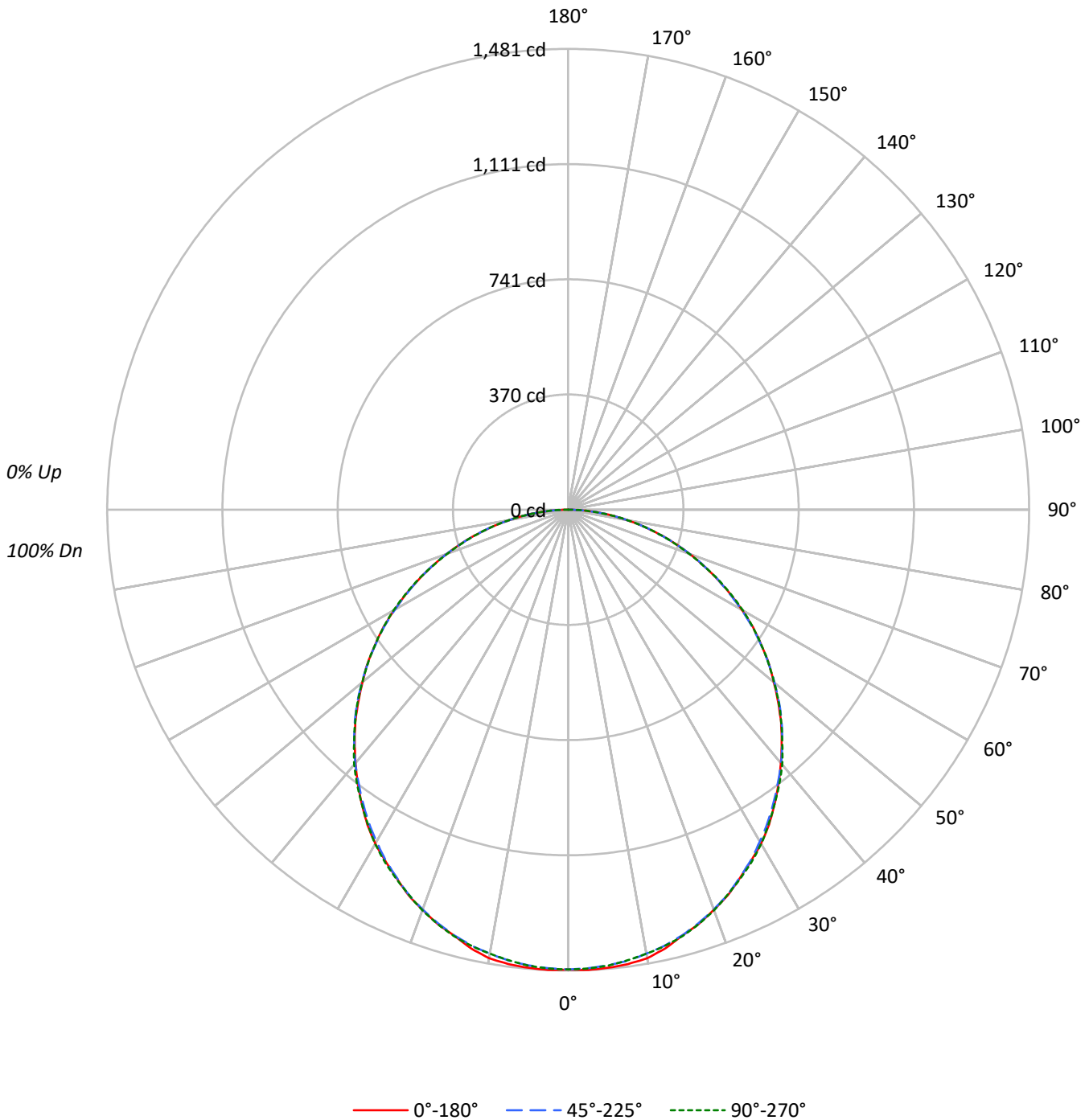
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1988	1988	1988
5°	1996	1985	1987
10°	2000	1979	1979
15°	1974	1972	1976
20°	1959	1957	1962
25°	1938	1936	1942
30°	1926	1913	1927
35°	1898	1888	1898
40°	1867	1869	1879
45°	1840	1846	1842
50°	1805	1812	1807
55°	1778	1773	1778
60°	1736	1731	1747
65°	1683	1689	1695
70°	1628	1636	1624
75°	1570	1570	1570
80°	1483	1483	1499
85°	1369	1385	1338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	3.3
10°-20°	399.4	9.4
20°-30°	601.9	14.2
30°-40°	721.0	17.1
40°-50°	746.3	17.7
50°-60°	676.7	16.0
60°-70°	524.6	12.4
70°-80°	319.0	7.5
80°-90°	99.2	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°	1141.1	27.0
0°-40°	1862.1	44.0
0°-60°	3285.1	77.7
0°-90°	4228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1478	1469	1470	1468	1471	141
15°	1417	1418	1416	1411	1419	401
25°	1305	1305	1304	1308	1308	603
35°	1156	1148	1150	1155	1156	723
45°	967	969	970	966	968	745
55°	758	754	756	759	758	677
65°	528	532	530	528	532	524
75°	302	301	302	301	302	319
85°	89	88	90	89	87	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1477.7	1477.7	1477.7	1477.7	1477.7
2.5°	1480.7	1474.7	1474.7	1472.7	1475.7
5°	1477.7	1468.8	1469.8	1467.8	1470.8
7.5°	1472.7	1460.8	1461.8	1459.8	1460.8
10°	1463.8	1449.8	1448.8	1447.8	1448.8
12.5°	1443.8	1435.9	1434.9	1432.9	1435.9
15°	1416.9	1417.9	1415.9	1410.9	1418.9
17.5°	1396.0	1395.0	1393.0	1388.0	1396.0
20°	1368.1	1369.0	1367.1	1365.1	1370.0
22.5°	1341.1	1338.1	1339.1	1338.1	1339.1
25°	1305.2	1305.2	1304.2	1308.2	1308.2
27.5°	1272.3	1268.3	1270.3	1274.3	1276.3
30°	1239.4	1229.5	1231.4	1235.4	1240.4
32.5°	1200.5	1190.6	1192.6	1196.5	1198.5
35°	1155.7	1147.7	1149.7	1154.7	1155.7
37.5°	1109.8	1104.8	1106.8	1110.8	1113.8
40°	1062.9	1060.9	1063.9	1062.9	1069.9
42.5°	1015.1	1014.1	1017.1	1017.1	1018.1
45°	967.2	969.2	970.2	966.2	968.2
47.5°	914.4	915.4	919.3	917.4	918.3
50°	862.5	861.5	865.5	866.5	863.5
52.5°	812.7	807.7	811.7	813.7	811.7
55°	757.8	753.8	755.8	758.8	757.8
57.5°	704.0	700.0	701.0	706.0	704.0
60°	645.1	644.1	643.1	647.1	649.1
62.5°	587.3	586.3	584.3	588.3	590.3
65°	528.5	531.5	530.5	528.5	532.5
67.5°	472.6	475.6	472.6	470.6	470.6
70°	413.8	416.8	415.8	413.8	412.8
72.5°	359.0	359.0	357.0	356.0	357.0
75°	302.1	301.1	302.1	301.1	302.1
77.5°	246.3	247.3	247.3	247.3	246.3
80°	191.4	191.4	191.4	192.4	193.4
82.5°	140.6	137.6	140.6	138.6	139.6
85°	88.7	87.7	89.7	88.7	86.7
87.5°	39.9	40.9	40.9	41.9	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)