

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: P293492

Luminaire Tested: **24GR-LD5-42-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293492
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-LD5-42-A-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4422.0 lumens
Efficiency: N/A
Efficacy: 153.9 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

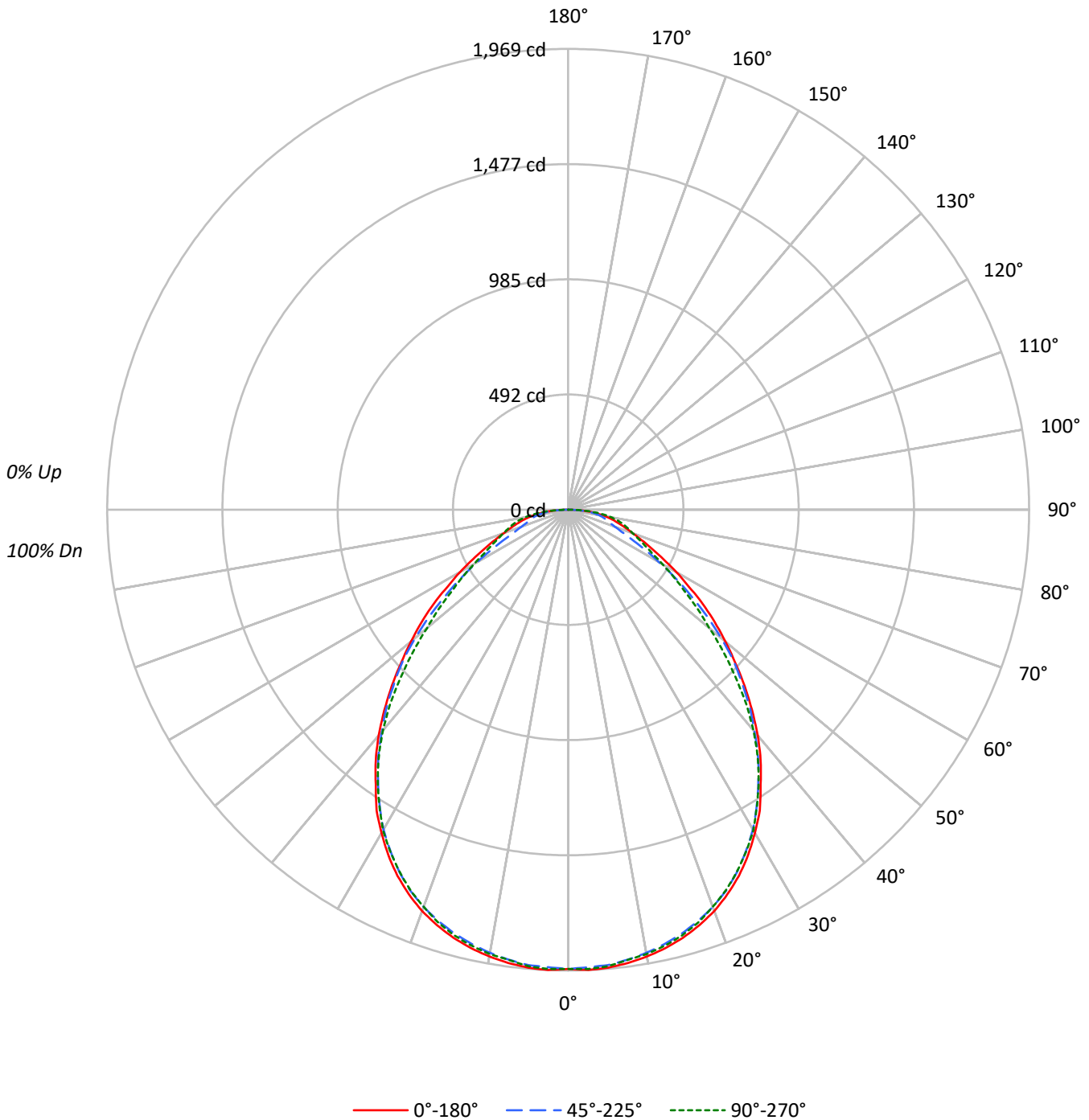
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2640	2640	2640
5°	2653	2638	2644
10°	2648	2626	2634
15°	2638	2611	2623
20°	2613	2586	2585
25°	2562	2534	2532
30°	2477	2452	2457
35°	2353	2326	2329
40°	2213	2174	2161
45°	2028	2001	1921
50°	1833	1783	1649
55°	1646	1498	1421
60°	1441	1206	1250
65°	1257	948	1151
70°	1150	828	1150
75°	1150	881	1268
80°	1249	1038	1445
85°	1371	1170	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	4.2
10°-20°	530.2	12.0
20°-30°	786.2	17.8
30°-40°	886.9	20.1
40°-50°	803.3	18.2
50°-60°	579.5	13.1
60°-70°	346.0	7.8
70°-80°	213.9	4.8
80°-90°	90.1	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°	1502.2	34.0
0°-40°	2389.2	54.0
0°-60°	3772.0	85.3
0°-90°	4422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1964	1961	1953	1951	1958	187
15°	1894	1882	1874	1875	1883	534
25°	1726	1716	1707	1701	1706	793
35°	1433	1430	1416	1417	1418	896
45°	1066	1059	1051	1025	1010	821
55°	702	680	639	607	606	626
65°	395	348	298	338	361	397
75°	221	192	169	211	244	236
85°	89	78	76	99	100	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.0	1962.0	1962.0	1962.0	1962.0
2.5°	1968.8	1963.4	1956.5	1960.6	1964.0
5°	1964.0	1961.3	1953.1	1951.1	1957.9
7.5°	1953.8	1947.0	1939.4	1942.9	1940.1
10°	1938.1	1931.9	1922.4	1923.1	1927.8
12.5°	1919.0	1911.4	1901.2	1903.9	1908.0
15°	1893.7	1882.1	1874.5	1875.2	1882.7
17.5°	1861.6	1852.7	1843.1	1845.2	1848.6
20°	1824.7	1819.9	1806.2	1802.1	1805.6
22.5°	1778.2	1769.3	1761.8	1759.8	1760.5
25°	1725.6	1716.1	1707.2	1701.0	1705.8
27.5°	1664.1	1655.9	1644.3	1642.3	1646.4
30°	1594.5	1588.3	1578.1	1575.3	1581.5
32.5°	1523.4	1513.2	1498.8	1498.8	1500.2
35°	1432.6	1430.5	1416.2	1416.8	1418.2
37.5°	1350.6	1341.0	1332.8	1324.6	1328.7
40°	1259.7	1248.8	1237.9	1232.4	1230.3
42.5°	1162.0	1153.8	1149.0	1129.2	1124.5
45°	1065.7	1058.9	1051.4	1025.4	1009.7
47.5°	967.3	966.0	959.8	914.0	898.3
50°	875.8	873.7	851.9	803.4	787.7
52.5°	789.0	775.4	746.7	698.9	696.1
55°	701.6	679.7	638.7	607.3	605.9
57.5°	609.4	583.4	541.7	524.7	533.5
60°	535.6	496.0	448.1	450.2	464.5
62.5°	459.1	414.7	367.5	388.0	405.1
65°	394.9	347.7	297.9	338.2	361.4
67.5°	338.8	295.1	247.3	301.3	323.8
70°	292.4	256.9	210.4	267.1	292.4
72.5°	255.5	222.7	186.5	239.8	269.2
75°	221.3	192.0	169.4	211.1	243.9
77.5°	192.0	163.3	153.0	186.5	218.6
80°	161.2	135.3	133.9	162.6	186.5
82.5°	125.7	107.9	107.9	135.9	150.3
85°	88.8	77.9	75.8	99.1	100.4
87.5°	45.8	43.7	39.6	51.9	51.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)