

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: P292988

Luminaire Tested: **24GR-LD5-42-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F1-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4370.0 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

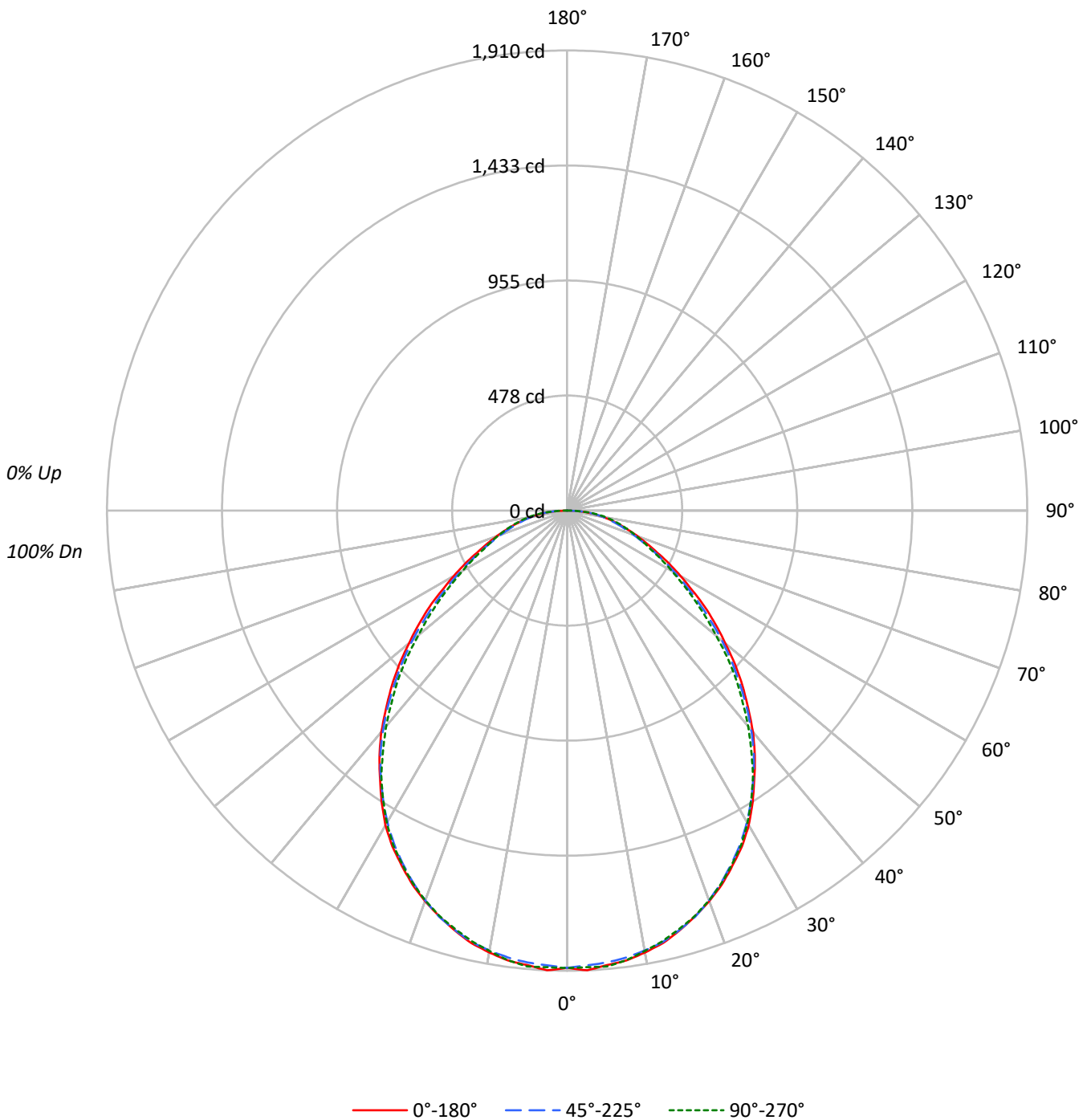
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2554	2554	2554
5°	2558	2543	2565
10°	2544	2533	2536
15°	2512	2510	2504
20°	2470	2465	2465
25°	2413	2399	2405
30°	2343	2319	2326
35°	2225	2215	2209
40°	2107	2088	2052
45°	1959	1924	1887
50°	1794	1755	1689
55°	1639	1565	1512
60°	1460	1390	1353
65°	1314	1245	1228
70°	1220	1145	1192
75°	1167	1115	1209
80°	1166	1166	1292
85°	1210	1224	1363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	4.1
10°-20°	507.3	11.6
20°-30°	744.6	17.0
30°-40°	841.8	19.3
40°-50°	778.0	17.8
50°-60°	599.4	13.7
60°-70°	396.9	9.1
70°-80°	236.3	5.4
80°-90°	86.6	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°	1431.1	32.7
0°-40°	2272.9	52.0
0°-60°	3650.3	83.5
0°-90°	4370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1894	1894	1883	1884	1899	180
15°	1804	1800	1802	1801	1797	508
25°	1625	1621	1616	1614	1620	748
35°	1355	1353	1348	1342	1345	848
45°	1029	1022	1011	993	992	793
55°	698	684	667	649	644	623
65°	413	406	391	388	386	414
75°	224	219	214	224	232	239
85°	78	74	79	87	88	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1909.9	1900.0	1889.2	1889.2	1897.3
5°	1893.7	1893.7	1882.9	1883.8	1899.1
7.5°	1883.8	1878.4	1871.2	1871.2	1882.9
10°	1862.2	1857.7	1854.1	1852.3	1855.9
12.5°	1838.7	1831.5	1834.2	1831.5	1830.6
15°	1803.6	1800.0	1801.8	1800.9	1797.3
17.5°	1765.7	1763.9	1767.5	1761.2	1763.9
20°	1725.2	1719.8	1721.6	1718.0	1721.6
22.5°	1679.2	1675.6	1671.1	1666.6	1673.8
25°	1625.1	1620.6	1616.1	1614.3	1619.7
27.5°	1571.0	1563.8	1557.5	1555.7	1563.8
30°	1507.9	1499.8	1492.6	1490.8	1497.1
32.5°	1433.1	1431.3	1422.3	1418.7	1421.4
35°	1354.7	1352.9	1348.4	1342.1	1344.8
37.5°	1279.9	1279.0	1272.7	1261.9	1254.7
40°	1199.7	1193.4	1188.9	1173.5	1168.1
42.5°	1111.4	1109.6	1101.4	1084.3	1078.0
45°	1029.3	1022.1	1011.3	993.3	991.5
47.5°	944.6	934.7	924.8	902.2	901.3
50°	857.2	850.0	838.2	815.7	806.7
52.5°	776.1	766.1	749.9	728.3	723.8
55°	698.5	684.1	667.0	649.0	644.5
57.5°	615.6	609.3	588.6	574.2	568.7
60°	542.6	537.2	516.5	502.9	502.9
62.5°	476.8	468.7	450.7	441.7	441.7
65°	412.8	406.5	391.2	387.6	385.8
67.5°	357.8	349.7	338.9	338.0	342.5
70°	310.1	300.1	291.1	300.1	302.9
72.5°	265.0	258.7	250.6	262.3	267.7
75°	224.4	219.0	214.5	224.4	232.5
77.5°	187.5	182.1	182.1	192.9	200.1
80°	150.5	146.9	150.5	159.5	166.7
82.5°	115.4	112.7	117.2	126.2	130.7
85°	78.4	73.9	79.3	87.4	88.3
87.5°	37.0	36.1	39.7	45.1	44.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)