

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: P293491

Luminaire Tested: **24GR-LD5-42-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293491
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4410.0 lumens
Efficiency: N/A
Efficacy: 153.5 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

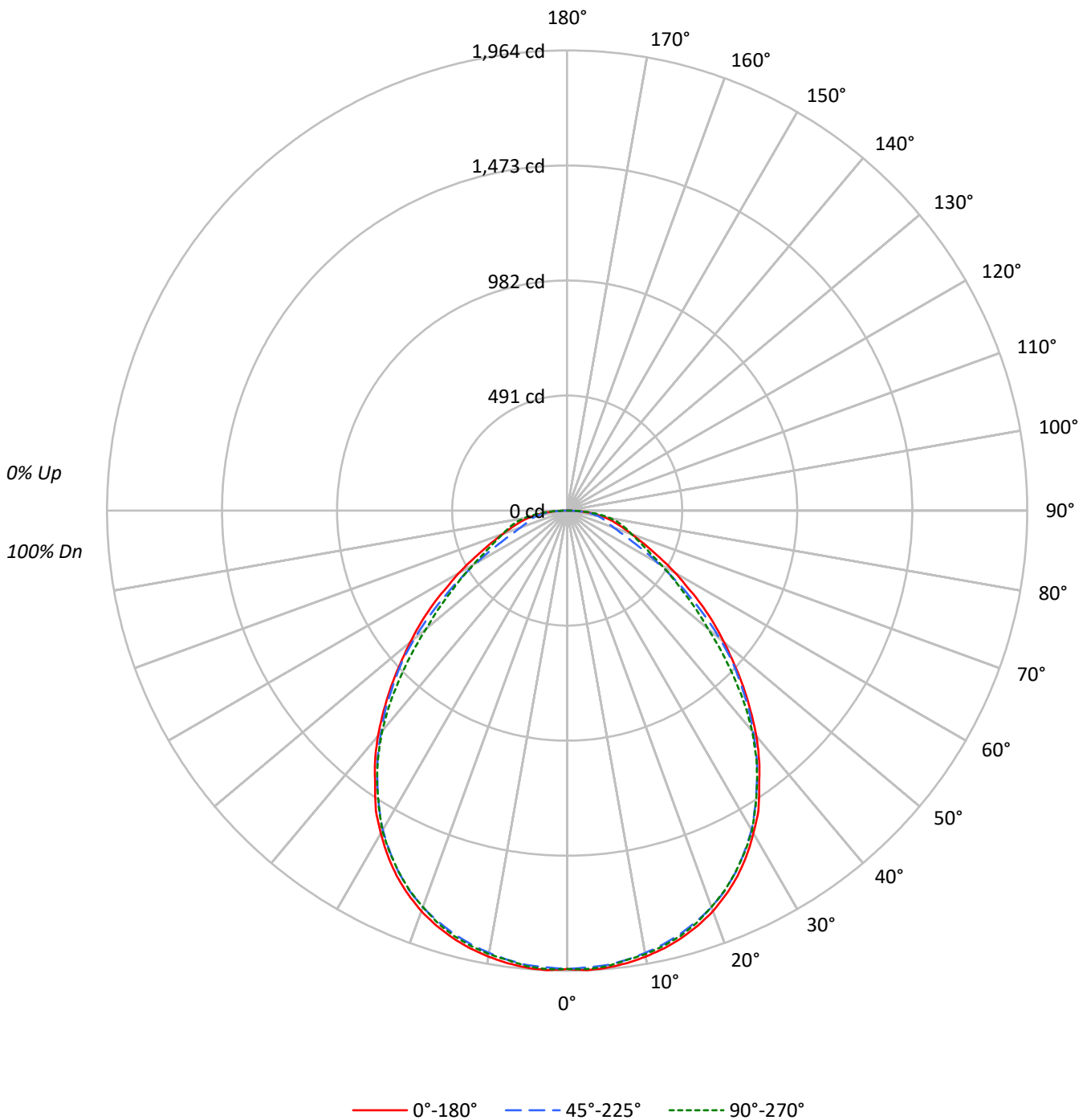
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2633	2633	2633
5°	2645	2631	2637
10°	2641	2619	2627
15°	2631	2604	2615
20°	2606	2579	2578
25°	2555	2528	2526
30°	2470	2445	2450
35°	2347	2320	2323
40°	2207	2168	2155
45°	2022	1995	1916
50°	1828	1778	1644
55°	1641	1494	1418
60°	1437	1203	1247
65°	1254	946	1147
70°	1147	825	1147
75°	1147	879	1264
80°	1246	1034	1441
85°	1368	1167	1545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	4.2
10°-20°	528.8	12.0
20°-30°	784.1	17.8
30°-40°	884.5	20.1
40°-50°	801.1	18.2
50°-60°	578.0	13.1
60°-70°	345.1	7.8
70°-80°	213.3	4.8
80°-90°	89.8	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°	1498.1	34.0
0°-40°	2382.7	54.0
0°-60°	3761.8	85.3
0°-90°	4410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1959	1956	1948	1946	1953	186
15°	1888	1877	1870	1870	1878	532
25°	1721	1711	1702	1696	1701	791
35°	1429	1427	1412	1413	1414	894
45°	1063	1056	1048	1023	1007	819
55°	700	678	637	606	604	625
65°	394	347	297	337	360	396
75°	221	191	169	210	243	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°	1956.7	1956.7	1956.7	1956.7	1956.7
2.5°	1963.5	1958.0	1951.2	1955.3	1958.7
5°	1958.7	1956.0	1947.8	1945.8	1952.6
7.5°	1948.5	1941.7	1934.2	1937.6	1934.9
10°	1932.8	1926.7	1917.2	1917.8	1922.6
12.5°	1913.7	1906.3	1896.0	1898.8	1902.8
15°	1888.5	1877.0	1869.5	1870.1	1877.6
17.5°	1856.5	1847.7	1838.1	1840.2	1843.6
20°	1819.7	1815.0	1801.3	1797.2	1800.7
22.5°	1773.4	1764.5	1757.0	1755.0	1755.7
25°	1720.9	1711.4	1702.5	1696.4	1701.2
27.5°	1659.6	1651.4	1639.9	1637.8	1641.9
30°	1590.1	1584.0	1573.8	1571.1	1577.2
32.5°	1519.3	1509.1	1494.8	1494.8	1496.1
35°	1428.7	1426.6	1412.3	1413.0	1414.4
37.5°	1346.9	1337.4	1329.2	1321.0	1325.1
40°	1256.3	1245.4	1234.5	1229.0	1227.0
42.5°	1158.9	1150.7	1145.9	1126.2	1121.4
45°	1062.8	1056.0	1048.5	1022.6	1006.9
47.5°	964.7	963.3	957.2	911.6	895.9
50°	873.4	871.4	849.6	801.2	785.5
52.5°	786.9	773.3	744.7	697.0	694.2
55°	699.7	677.9	637.0	605.7	604.3
57.5°	607.7	581.8	540.3	523.2	532.1
60°	534.1	494.6	446.9	449.0	463.3
62.5°	457.8	413.5	366.5	387.0	404.0
65°	393.8	346.8	297.0	337.2	360.4
67.5°	337.9	294.3	246.6	300.4	322.9
70°	291.6	256.2	209.8	266.4	291.6
72.5°	254.8	222.1	186.0	239.1	268.4
75°	220.7	191.4	169.0	210.5	243.2
77.5°	191.4	162.8	152.6	186.0	218.0
80°	160.8	134.9	133.5	162.1	186.0
82.5°	125.4	107.6	107.6	135.6	149.9
85°	88.6	77.7	75.6	98.8	100.1
87.5°	45.6	43.6	39.5	51.8	51.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)