

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: P293487

Luminaire Tested: **24GR-LD5-42-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293487
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4142.0 lumens
Efficiency: N/A
Efficacy: 147.5 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

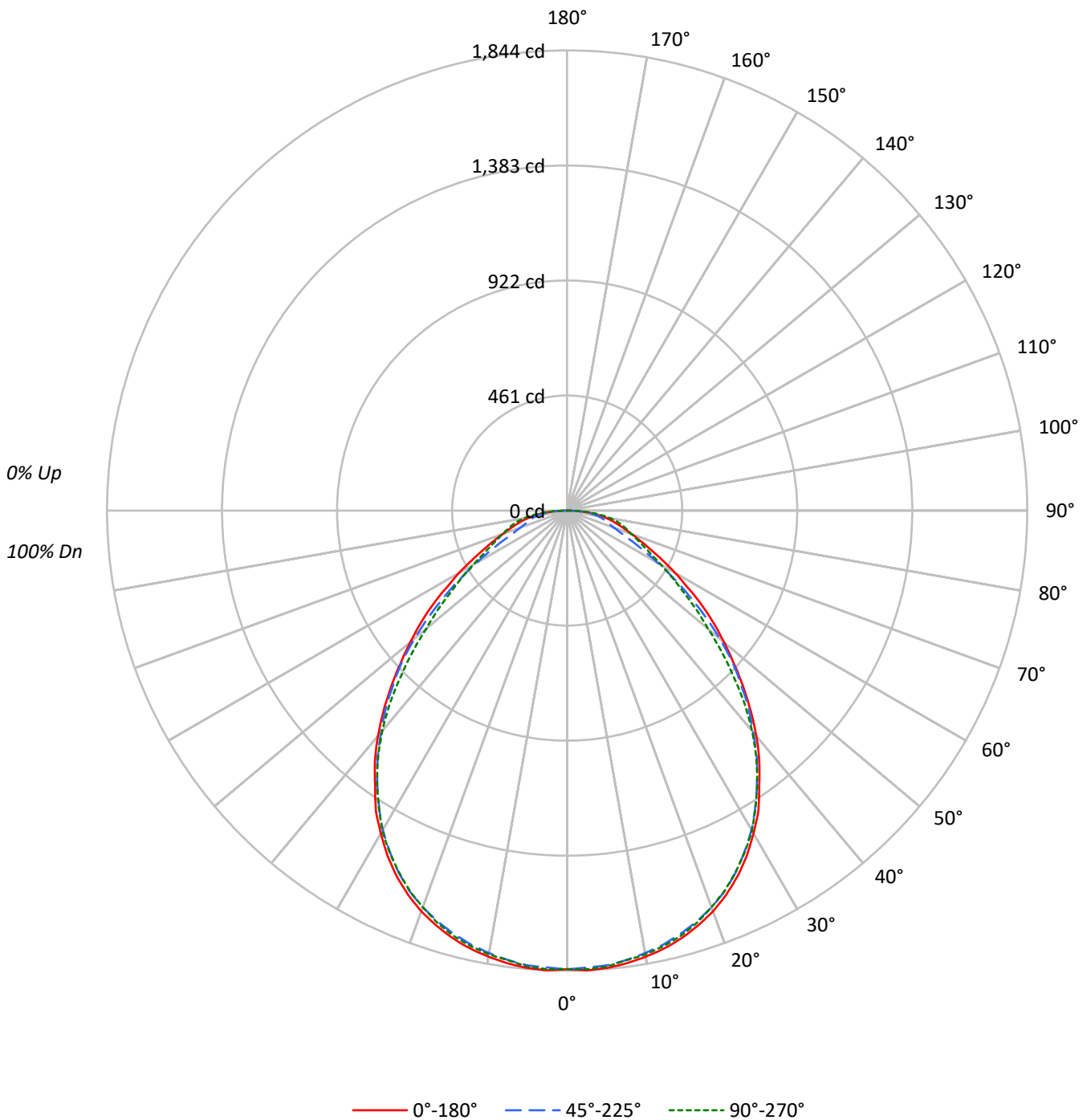
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2473	2473	2473
5°	2485	2471	2477
10°	2480	2460	2467
15°	2471	2446	2456
20°	2447	2423	2422
25°	2400	2374	2372
30°	2320	2296	2301
35°	2204	2179	2182
40°	2073	2037	2024
45°	1899	1874	1800
50°	1717	1670	1544
55°	1542	1403	1331
60°	1350	1130	1171
65°	1178	888	1078
70°	1078	775	1078
75°	1078	825	1187
80°	1170	972	1354
85°	1284	1096	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	4.2
10°-20°	496.6	12.0
20°-30°	736.4	17.8
30°-40°	830.8	20.1
40°-50°	752.4	18.2
50°-60°	542.8	13.1
60°-70°	324.1	7.8
70°-80°	200.3	4.8
80°-90°	84.4	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°	1407.1	34.0
0°-40°	2237.9	54.0
0°-60°	3533.2	85.3
0°-90°	4142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1840	1837	1829	1828	1834	175
15°	1774	1763	1756	1756	1764	500
25°	1616	1607	1599	1593	1598	743
35°	1342	1340	1326	1327	1328	840
45°	998	992	985	960	946	769
55°	657	637	598	569	568	587
65°	370	326	279	317	338	372
75°	207	180	159	198	228	221
85°	83	73	71	93	94	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1837.8	1837.8	1837.8	1837.8	1837.8
2.5°	1844.2	1839.0	1832.6	1836.5	1839.7
5°	1839.7	1837.1	1829.4	1827.5	1833.9
7.5°	1830.1	1823.7	1816.6	1819.8	1817.3
10°	1815.4	1809.6	1800.6	1801.3	1805.8
12.5°	1797.4	1790.4	1780.8	1783.4	1787.2
15°	1773.8	1762.9	1755.9	1756.5	1763.5
17.5°	1743.7	1735.4	1726.4	1728.3	1731.5
20°	1709.1	1704.7	1691.9	1688.0	1691.2
22.5°	1665.6	1657.3	1650.3	1648.4	1649.0
25°	1616.4	1607.4	1599.1	1593.3	1597.8
27.5°	1558.8	1551.1	1540.2	1538.3	1542.1
30°	1493.5	1487.7	1478.1	1475.6	1481.3
32.5°	1426.9	1417.4	1403.9	1403.9	1405.2
35°	1341.8	1339.9	1326.5	1327.1	1328.4
37.5°	1265.1	1256.1	1248.4	1240.7	1244.6
40°	1180.0	1169.7	1159.5	1154.4	1152.4
42.5°	1088.4	1080.8	1076.3	1057.7	1053.3
45°	998.2	991.8	984.8	960.5	945.8
47.5°	906.1	904.8	899.0	856.2	841.5
50°	820.3	818.4	797.9	752.5	737.8
52.5°	739.1	726.3	699.4	654.6	652.0
55°	657.2	636.7	598.3	568.9	567.6
57.5°	570.8	546.5	507.4	491.4	499.8
60°	501.7	464.6	419.8	421.7	435.1
62.5°	430.0	388.4	344.3	363.5	379.5
65°	369.9	325.7	279.0	316.7	338.5
67.5°	317.4	276.4	231.6	282.2	303.3
70°	273.9	240.6	197.1	250.2	273.9
72.5°	239.3	208.6	174.7	224.6	252.1
75°	207.3	179.8	158.7	197.7	228.4
77.5°	179.8	152.9	143.3	174.7	204.8
80°	151.0	126.7	125.4	152.3	174.7
82.5°	117.7	101.1	101.1	127.3	140.8
85°	83.2	72.9	71.0	92.8	94.1
87.5°	42.9	41.0	37.1	48.6	48.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)