

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: P293485

Luminaire Tested: **24GR-LD5-42-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293485
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3892.0 lumens
Efficiency: N/A
Efficacy: 139.0 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

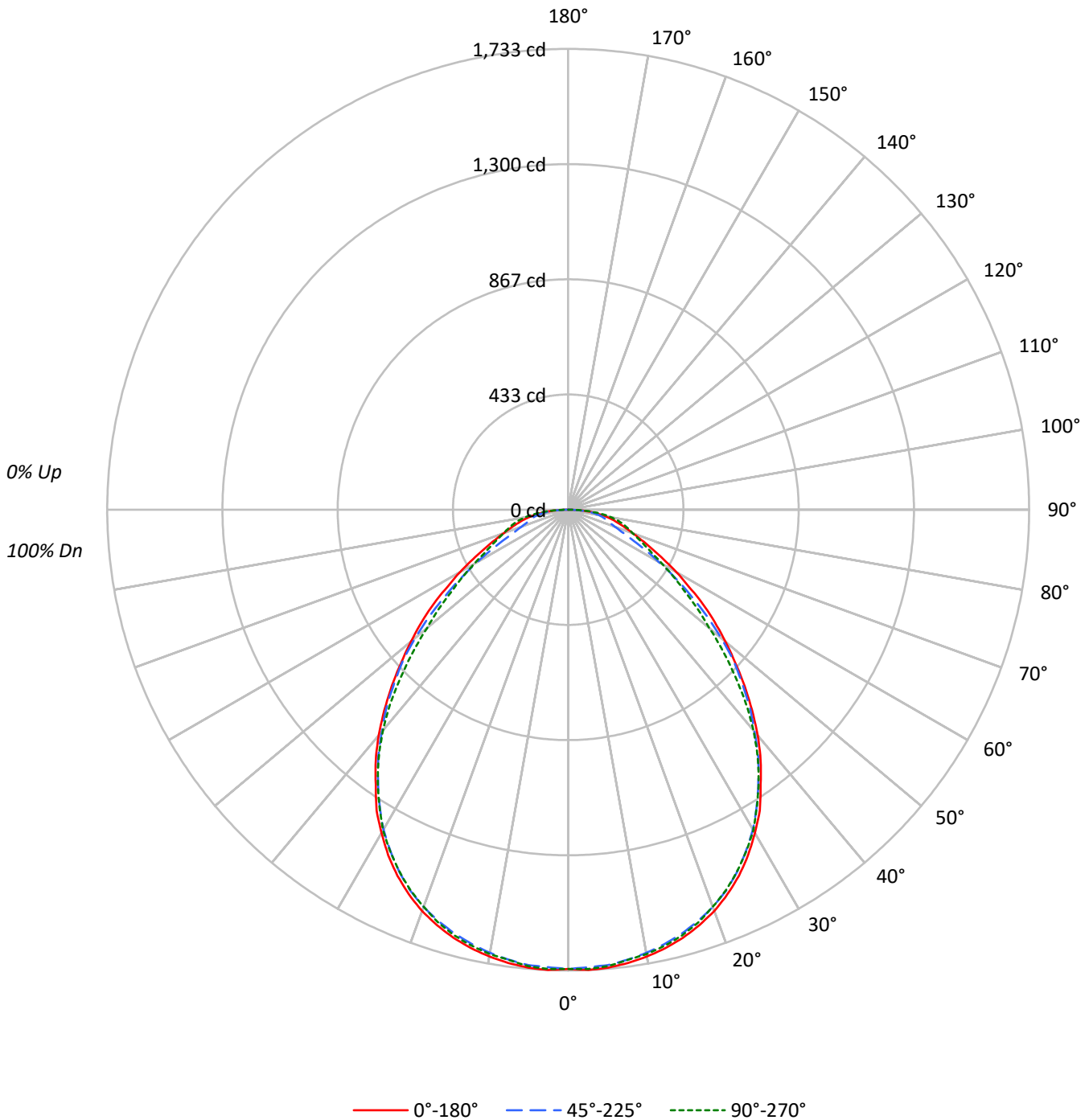
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2323	2323	2323
5°	2335	2322	2327
10°	2331	2312	2318
15°	2322	2298	2308
20°	2300	2276	2275
25°	2255	2231	2229
30°	2180	2158	2163
35°	2071	2047	2050
40°	1947	1914	1902
45°	1785	1761	1691
50°	1613	1569	1451
55°	1449	1319	1251
60°	1269	1061	1100
65°	1106	835	1013
70°	1012	729	1012
75°	1013	775	1116
80°	1099	913	1272
85°	1207	1030	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	4.2
10°-20°	466.7	12.0
20°-30°	692.0	17.8
30°-40°	780.6	20.1
40°-50°	707.0	18.2
50°-60°	510.1	13.1
60°-70°	304.6	7.8
70°-80°	188.2	4.8
80°-90°	79.3	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°	1322.2	34.0
0°-40°	2102.8	54.0
0°-60°	3319.9	85.3
0°-90°	3892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1729	1726	1719	1717	1723	164
15°	1667	1656	1650	1650	1657	470
25°	1519	1510	1503	1497	1501	698
35°	1261	1259	1246	1247	1248	789
45°	938	932	925	902	889	723
55°	618	598	562	534	533	551
65°	348	306	262	298	318	350
75°	195	169	149	186	215	208
85°	78	68	67	87	88	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.8	1726.8	1726.8	1726.8	1726.8
2.5°	1732.8	1728.0	1722.0	1725.6	1728.6
5°	1728.6	1726.2	1719.0	1717.2	1723.2
7.5°	1719.6	1713.6	1707.0	1710.0	1707.6
10°	1705.8	1700.4	1692.0	1692.6	1696.8
12.5°	1689.0	1682.3	1673.3	1675.7	1679.3
15°	1666.7	1656.5	1649.9	1650.5	1657.1
17.5°	1638.4	1630.6	1622.2	1624.0	1627.0
20°	1606.0	1601.8	1589.7	1586.1	1589.1
22.5°	1565.1	1557.3	1550.7	1548.9	1549.5
25°	1518.8	1510.4	1502.6	1497.2	1501.4
27.5°	1464.7	1457.5	1447.2	1445.4	1449.1
30°	1403.4	1397.9	1388.9	1386.5	1391.9
32.5°	1340.8	1331.8	1319.2	1319.2	1320.4
35°	1260.9	1259.1	1246.4	1247.0	1248.2
37.5°	1188.7	1180.3	1173.1	1165.9	1169.5
40°	1108.7	1099.1	1089.5	1084.7	1082.9
42.5°	1022.8	1015.5	1011.3	993.9	989.7
45°	938.0	932.0	925.3	902.5	888.7
47.5°	851.4	850.2	844.8	804.5	790.7
50°	770.8	769.0	749.8	707.1	693.3
52.5°	694.5	682.4	657.2	615.1	612.7
55°	617.5	598.3	562.2	534.5	533.3
57.5°	536.3	513.5	476.8	461.8	469.6
60°	471.4	436.5	394.4	396.2	408.9
62.5°	404.1	365.0	323.5	341.5	356.6
65°	347.5	306.0	262.2	297.6	318.1
67.5°	298.2	259.7	217.7	265.2	285.0
70°	257.3	226.1	185.2	235.1	257.3
72.5°	224.9	196.0	164.1	211.0	236.9
75°	194.8	169.0	149.1	185.8	214.7
77.5°	169.0	143.7	134.7	164.1	192.4
80°	141.9	119.1	117.8	143.1	164.1
82.5°	110.6	95.0	95.0	119.7	132.3
85°	78.2	68.5	66.7	87.2	88.4
87.5°	40.3	38.5	34.9	45.7	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)