

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: P293241

Luminaire Tested: **24GR-LD5-42-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4382.0 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

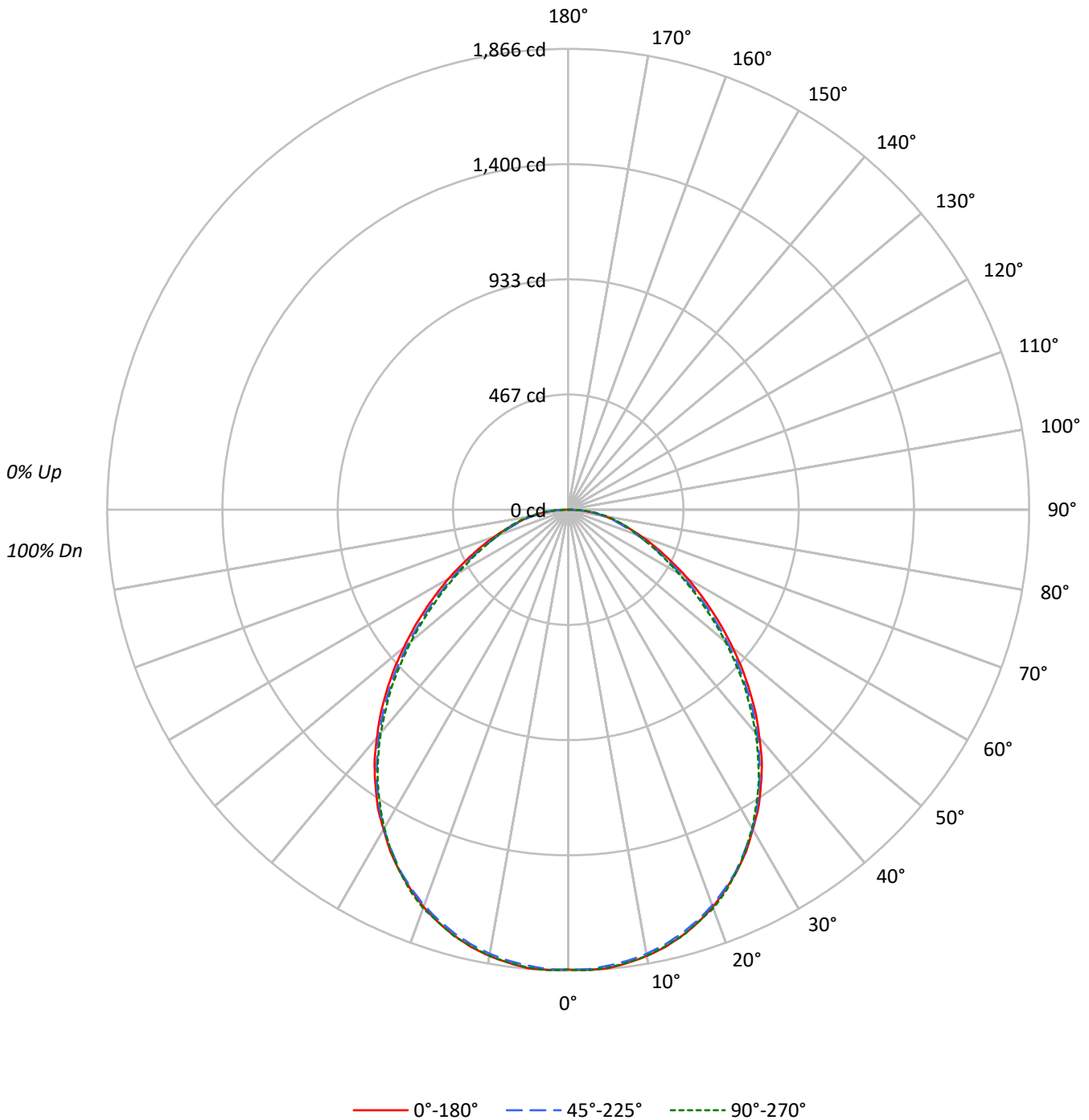
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	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	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2506	2506	2506
5°	2517	2503	2514
10°	2507	2495	2506
15°	2487	2474	2489
20°	2451	2441	2459
25°	2398	2392	2397
30°	2322	2318	2312
35°	2234	2217	2208
40°	2115	2091	2074
45°	1978	1942	1918
50°	1818	1769	1739
55°	1658	1597	1551
60°	1506	1425	1388
65°	1356	1280	1258
70°	1242	1161	1194
75°	1161	1107	1189
80°	1151	1130	1242
85°	1173	1184	1354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	4.0
10°-20°	501.1	11.4
20°-30°	740.3	16.9
30°-40°	841.6	19.2
40°-50°	785.9	17.9
50°-60°	611.2	13.9
60°-70°	405.5	9.3
70°-80°	234.7	5.4
80°-90°	85.3	1.9
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°	1417.6	32.4
0°-40°	2259.2	51.6
0°-60°	3656.4	83.4
0°-90°	4382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1864	1854	1853	1857	1861	177
15°	1786	1777	1776	1775	1787	503
25°	1615	1608	1611	1608	1614	743
35°	1360	1353	1350	1340	1344	849
45°	1040	1032	1021	1008	1008	801
55°	707	697	681	663	661	634
65°	426	413	402	394	395	426
75°	223	218	213	223	229	239
85°	76	75	77	87	88	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.3	1862.3	1862.3	1862.3	1862.3
2.5°	1865.1	1859.6	1862.3	1860.3	1866.5
5°	1863.7	1854.1	1853.4	1856.9	1861.0
7.5°	1850.7	1840.4	1842.5	1842.5	1849.3
10°	1835.0	1824.7	1826.0	1826.7	1834.3
12.5°	1813.7	1803.4	1804.1	1803.4	1811.0
15°	1785.6	1776.7	1776.0	1775.4	1787.0
17.5°	1751.4	1739.1	1743.2	1743.9	1750.0
20°	1711.7	1702.1	1704.8	1704.1	1717.1
22.5°	1664.4	1657.6	1659.6	1658.2	1670.6
25°	1615.1	1608.2	1611.0	1607.6	1614.4
27.5°	1559.6	1554.8	1552.1	1550.0	1554.8
30°	1494.5	1491.8	1491.8	1482.9	1488.4
32.5°	1432.9	1424.0	1424.0	1420.6	1417.1
35°	1360.3	1353.4	1350.0	1340.4	1344.5
37.5°	1287.7	1271.9	1270.6	1263.0	1263.0
40°	1204.1	1195.2	1190.4	1182.2	1180.8
42.5°	1124.7	1115.8	1107.5	1093.8	1091.1
45°	1039.7	1031.5	1020.6	1007.5	1008.2
47.5°	955.5	943.8	933.6	917.8	915.8
50°	868.5	860.3	845.2	831.5	830.8
52.5°	787.0	774.0	760.3	743.8	743.8
55°	706.9	696.6	680.8	663.0	661.0
57.5°	630.1	620.6	602.7	589.7	586.3
60°	559.6	545.9	529.5	518.5	515.8
62.5°	489.0	476.7	464.4	453.4	452.7
65°	426.0	413.0	402.1	394.5	395.2
67.5°	369.2	358.2	345.9	343.8	344.5
70°	315.8	304.1	295.2	300.0	303.4
72.5°	265.1	258.9	252.7	259.6	264.4
75°	223.3	217.8	213.0	222.6	228.8
77.5°	184.9	180.8	180.1	188.4	193.8
80°	148.6	143.8	145.9	155.5	160.3
82.5°	113.0	109.6	110.3	121.9	125.3
85°	76.0	74.7	76.7	87.0	87.7
87.5°	40.4	40.4	41.8	47.9	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)