

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: P293376

Luminaire Tested: **24GR-LD5-48-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293376
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-LD5-48-F125-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4602.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

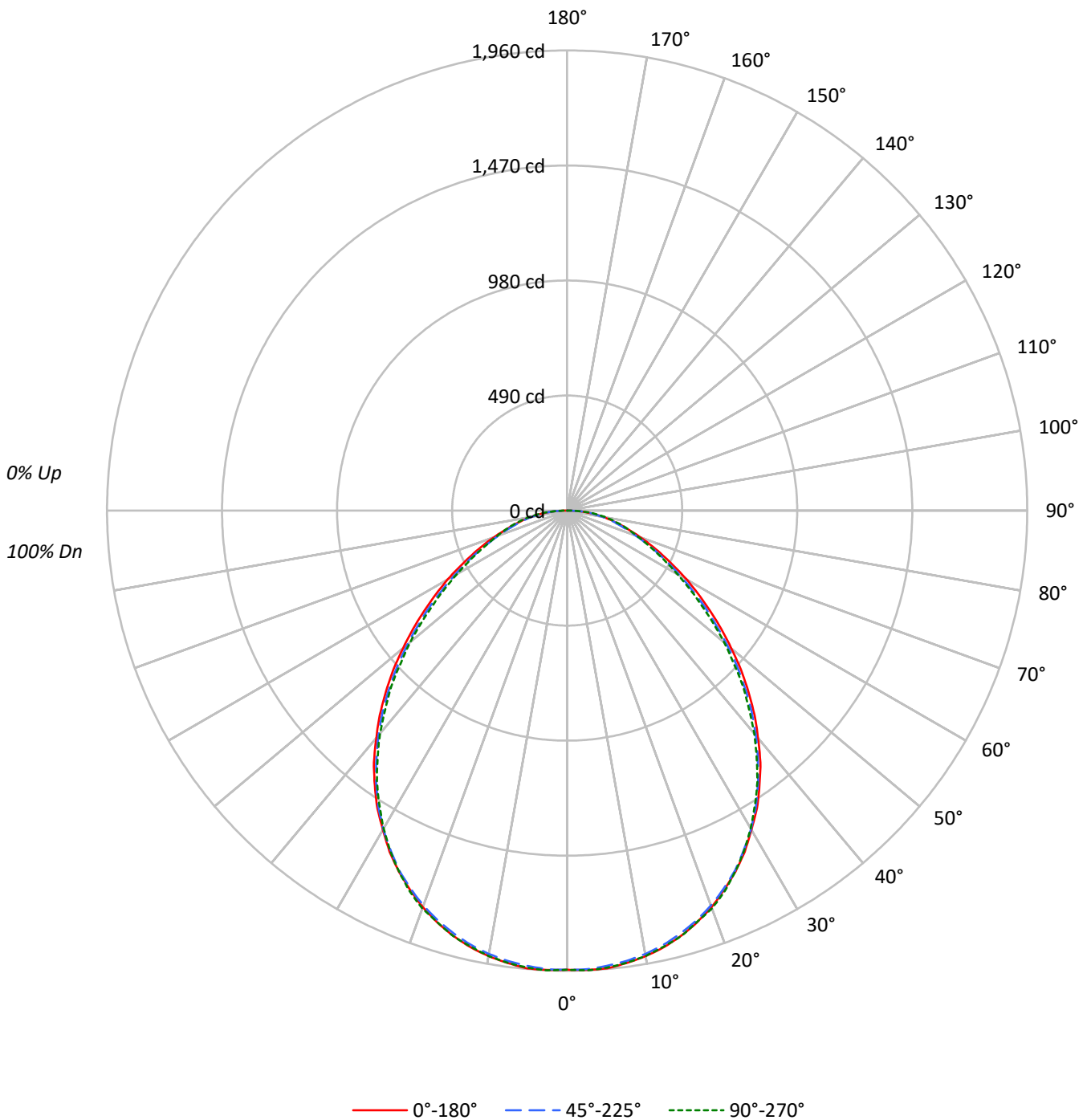
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	2632	2632	2632
5°	2644	2629	2640
10°	2633	2620	2632
15°	2612	2598	2614
20°	2574	2564	2582
25°	2518	2512	2517
30°	2439	2434	2428
35°	2347	2329	2319
40°	2221	2196	2178
45°	2078	2039	2015
50°	1909	1858	1826
55°	1741	1677	1628
60°	1581	1496	1458
65°	1424	1344	1322
70°	1304	1220	1254
75°	1219	1163	1249
80°	1210	1187	1304
85°	1232	1244	1422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	4.0
10°-20°	526.3	11.4
20°-30°	777.4	16.9
30°-40°	883.9	19.2
40°-50°	825.4	17.9
50°-60°	641.9	13.9
60°-70°	425.9	9.3
70°-80°	246.5	5.4
80°-90°	89.6	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°	1488.8	32.4
0°-40°	2372.7	51.6
0°-60°	3840.0	83.4
0°-90°	4602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1957	1947	1946	1950	1954	186
15°	1875	1866	1865	1864	1877	528
25°	1696	1689	1692	1688	1696	780
35°	1429	1421	1418	1408	1412	892
45°	1092	1083	1072	1058	1059	841
55°	742	732	715	696	694	666
65°	447	434	422	414	415	447
75°	234	229	224	234	240	251
85°	80	78	81	91	92	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1955.8	1955.8	1955.8	1955.8	1955.8
2.5°	1958.7	1953.0	1955.8	1953.7	1960.2
5°	1957.3	1947.2	1946.5	1950.1	1954.4
7.5°	1943.6	1932.8	1935.0	1935.0	1942.2
10°	1927.1	1916.3	1917.7	1918.4	1926.4
12.5°	1904.8	1894.0	1894.7	1894.0	1901.9
15°	1875.3	1865.9	1865.2	1864.5	1876.7
17.5°	1839.3	1826.4	1830.7	1831.4	1837.9
20°	1797.6	1787.5	1790.4	1789.7	1803.4
22.5°	1748.0	1740.8	1742.9	1741.5	1754.4
25°	1696.2	1689.0	1691.9	1688.3	1695.5
27.5°	1637.9	1632.9	1630.0	1627.8	1632.9
30°	1569.6	1566.7	1566.7	1557.3	1563.1
32.5°	1504.8	1495.5	1495.5	1491.9	1488.3
35°	1428.6	1421.4	1417.8	1407.7	1412.0
37.5°	1352.3	1335.8	1334.4	1326.4	1326.4
40°	1264.6	1255.2	1250.2	1241.6	1240.1
42.5°	1181.1	1171.8	1163.2	1148.8	1145.9
45°	1091.9	1083.3	1071.8	1058.1	1058.8
47.5°	1003.5	991.2	980.4	963.9	961.7
50°	912.1	903.5	887.6	873.3	872.5
52.5°	826.5	812.8	798.5	781.2	781.2
55°	742.3	731.6	715.0	696.3	694.2
57.5°	661.8	651.7	633.0	619.3	615.7
60°	587.7	573.3	556.0	544.5	541.7
62.5°	513.6	500.7	487.7	476.2	475.5
65°	447.4	433.8	422.2	414.3	415.1
67.5°	387.7	376.2	363.3	361.1	361.8
70°	331.6	319.4	310.0	315.1	318.7
72.5°	278.4	271.9	265.4	272.6	277.7
75°	234.5	228.7	223.7	233.8	240.3
77.5°	194.2	189.9	189.2	197.8	203.6
80°	156.1	151.1	153.2	163.3	168.3
82.5°	118.7	115.1	115.8	128.0	131.6
85°	79.8	78.4	80.6	91.4	92.1
87.5°	42.4	42.4	43.9	50.4	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)