

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: P293347

Luminaire Tested: **24GR-LD5-34-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293347
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-LD5-34-F125-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3277.0 lumens
Efficiency: N/A
Efficacy: 138.7 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

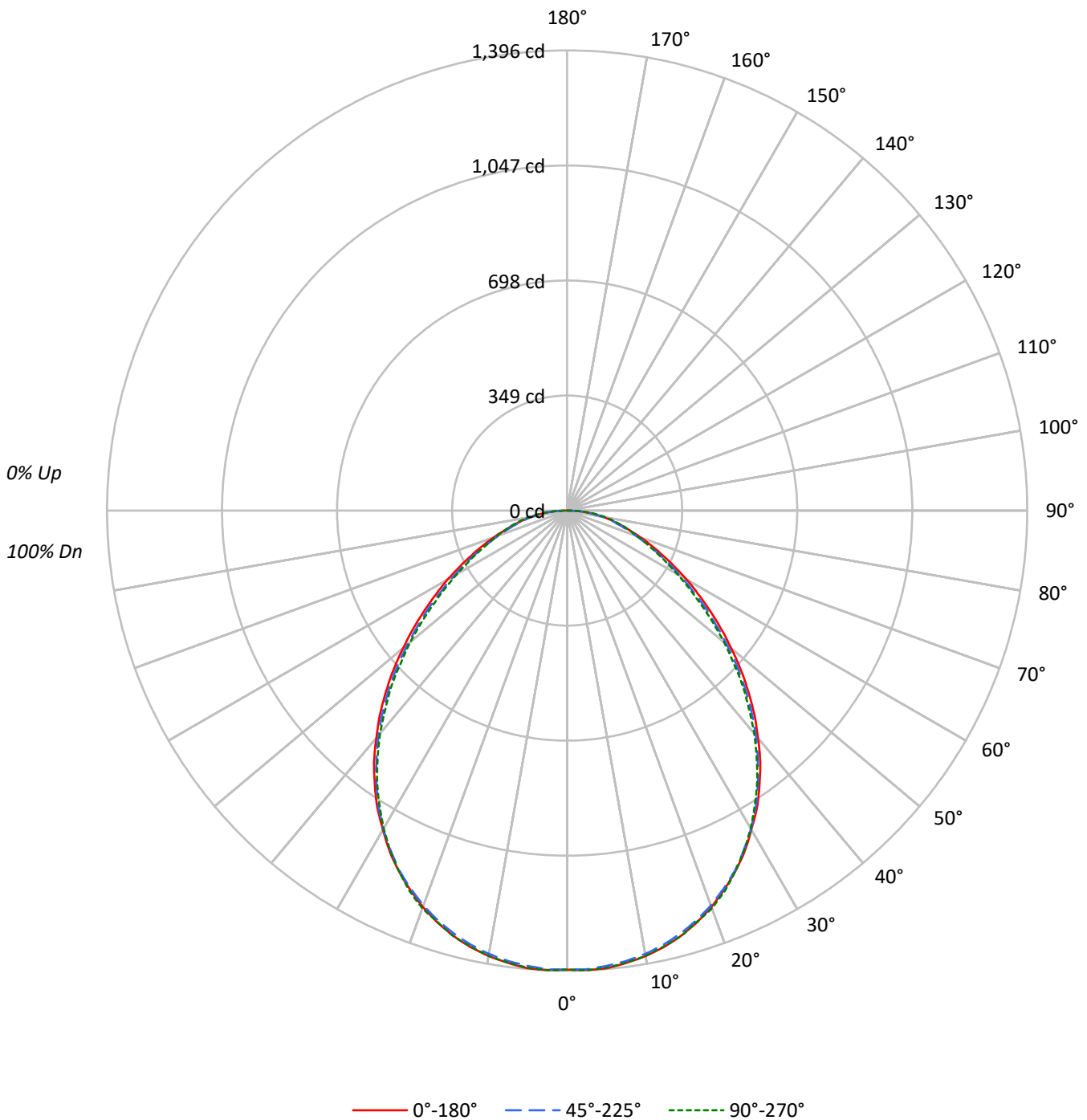
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1874	1874	1874
5°	1882	1872	1880
10°	1875	1866	1874
15°	1860	1850	1862
20°	1833	1825	1839
25°	1793	1788	1792
30°	1737	1733	1729
35°	1671	1658	1652
40°	1582	1564	1551
45°	1479	1452	1435
50°	1360	1323	1301
55°	1240	1194	1160
60°	1126	1065	1038
65°	1014	957	941
70°	929	869	893
75°	868	828	889
80°	862	845	929
85°	878	886	1013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	4.0
10°-20°	374.7	11.4
20°-30°	553.6	16.9
30°-40°	629.4	19.2
40°-50°	587.8	17.9
50°-60°	457.1	13.9
60°-70°	303.3	9.3
70°-80°	175.5	5.4
80°-90°	63.8	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°	1060.1	32.4
0°-40°	1689.5	51.6
0°-60°	2734.4	83.4
0°-90°	3277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1394	1387	1386	1389	1392	132
15°	1335	1329	1328	1328	1336	376
25°	1208	1203	1205	1202	1207	555
35°	1017	1012	1010	1002	1006	635
45°	778	771	763	754	754	599
55°	529	521	509	496	494	474
65°	319	309	301	295	296	318
75°	167	163	159	166	171	179
85°	57	56	57	65	66	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.7	1392.7	1392.7	1392.7	1392.7
2.5°	1394.8	1390.7	1392.7	1391.2	1395.8
5°	1393.7	1386.6	1386.1	1388.6	1391.7
7.5°	1384.0	1376.3	1377.9	1377.9	1383.0
10°	1372.2	1364.6	1365.6	1366.1	1371.7
12.5°	1356.4	1348.7	1349.2	1348.7	1354.3
15°	1335.4	1328.7	1328.2	1327.7	1336.4
17.5°	1309.7	1300.5	1303.6	1304.1	1308.7
20°	1280.0	1272.9	1274.9	1274.4	1284.1
22.5°	1244.7	1239.6	1241.1	1240.1	1249.3
25°	1207.8	1202.7	1204.7	1202.2	1207.3
27.5°	1166.3	1162.7	1160.7	1159.2	1162.7
30°	1117.7	1115.6	1115.6	1109.0	1113.1
32.5°	1071.6	1064.9	1064.9	1062.3	1059.8
35°	1017.3	1012.1	1009.6	1002.4	1005.5
37.5°	963.0	951.2	950.2	944.5	944.5
40°	900.5	893.8	890.2	884.1	883.1
42.5°	841.1	834.4	828.3	818.0	816.0
45°	777.5	771.4	763.2	753.5	754.0
47.5°	714.5	705.8	698.2	686.4	684.8
50°	649.5	643.3	632.1	621.8	621.3
52.5°	588.5	578.8	568.6	556.3	556.3
55°	528.6	520.9	509.1	495.8	494.3
57.5°	471.2	464.1	450.8	441.0	438.5
60°	418.5	408.2	395.9	387.8	385.7
62.5°	365.7	356.5	347.3	339.1	338.6
65°	318.6	308.9	300.7	295.0	295.6
67.5°	276.1	267.9	258.7	257.1	257.6
70°	236.1	227.4	220.8	224.4	226.9
72.5°	198.2	193.6	189.0	194.1	197.7
75°	167.0	162.9	159.3	166.5	171.1
77.5°	138.3	135.2	134.7	140.9	145.0
80°	111.2	107.6	109.1	116.3	119.9
82.5°	84.5	82.0	82.5	91.2	93.7
85°	56.9	55.8	57.4	65.1	65.6
87.5°	30.2	30.2	31.2	35.9	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)