

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: P293227

Luminaire Tested: **24GR-LD5-38-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293227
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-LD5-38-F125-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3841.0 lumens
Efficiency: N/A
Efficacy: 149.6 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

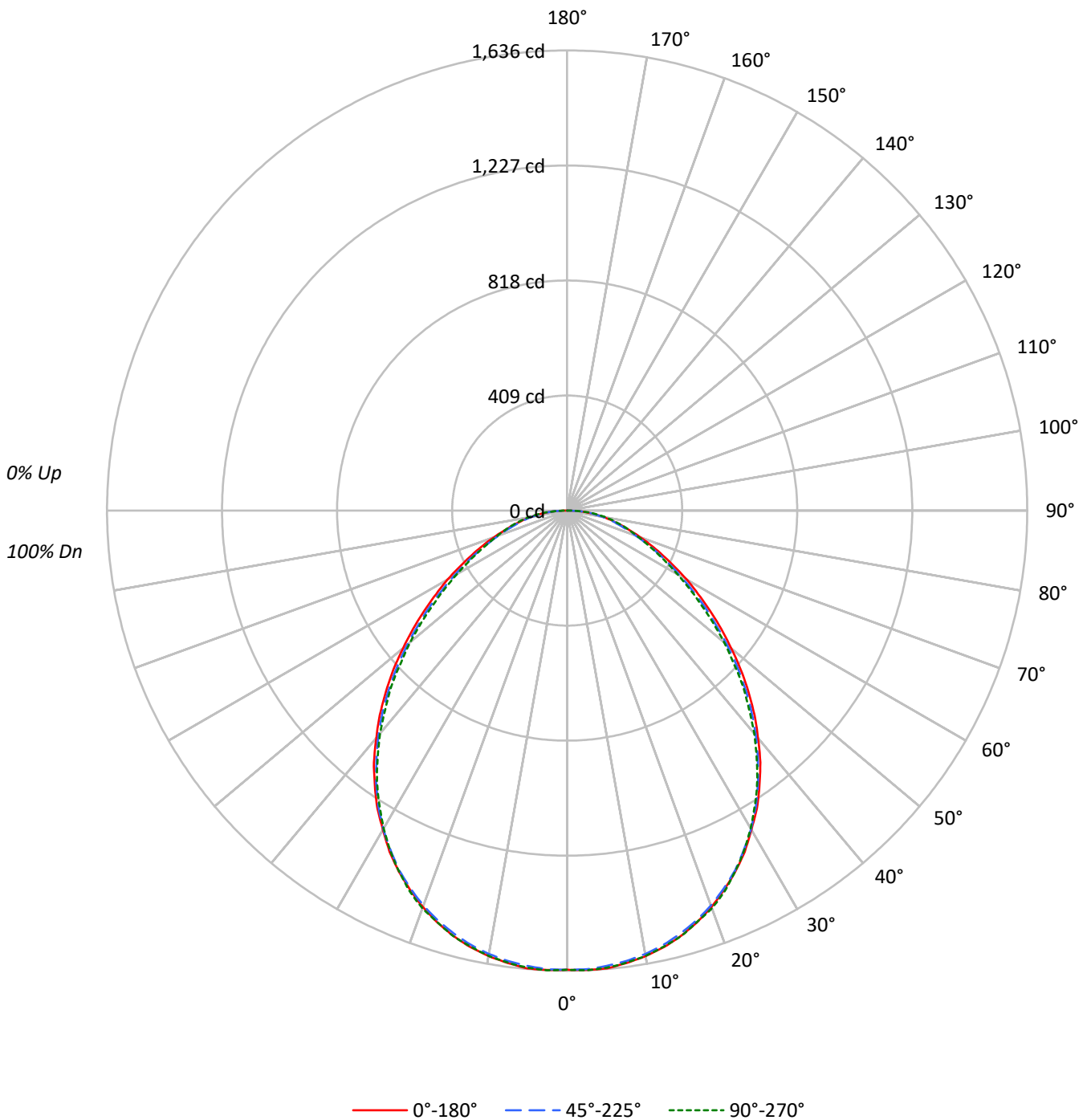
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2196	2196	2196
5°	2206	2194	2203
10°	2197	2187	2197
15°	2180	2169	2182
20°	2148	2140	2155
25°	2102	2096	2101
30°	2035	2032	2027
35°	1958	1944	1936
40°	1854	1833	1818
45°	1734	1702	1682
50°	1594	1551	1524
55°	1453	1400	1359
60°	1320	1249	1217
65°	1189	1122	1103
70°	1089	1018	1046
75°	1017	971	1042
80°	1010	991	1089
85°	1028	1037	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	4.0
10°-20°	439.2	11.4
20°-30°	648.9	16.9
30°-40°	737.7	19.2
40°-50°	688.9	17.9
50°-60°	535.8	13.9
60°-70°	355.5	9.3
70°-80°	205.7	5.4
80°-90°	74.8	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°	1242.6	32.4
0°-40°	1980.3	51.6
0°-60°	3205.0	83.4
0°-90°	3841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1634	1625	1625	1628	1631	155
15°	1565	1557	1557	1556	1566	441
25°	1416	1410	1412	1409	1415	651
35°	1192	1186	1183	1175	1178	744
45°	911	904	895	883	884	702
55°	620	611	597	581	579	556
65°	373	362	352	346	346	373
75°	196	191	187	195	200	209
85°	67	65	67	76	77	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1632.4	1632.4	1632.4	1632.4	1632.4
2.5°	1634.8	1630.0	1632.4	1630.6	1636.0
5°	1633.6	1625.2	1624.6	1627.6	1631.2
7.5°	1622.2	1613.2	1615.0	1615.0	1621.0
10°	1608.4	1599.4	1600.6	1601.2	1607.8
12.5°	1589.8	1580.8	1581.4	1580.8	1587.4
15°	1565.2	1557.4	1556.8	1556.2	1566.4
17.5°	1535.2	1524.4	1528.0	1528.6	1534.0
20°	1500.3	1491.9	1494.3	1493.7	1505.1
22.5°	1458.9	1452.9	1454.7	1453.5	1464.3
25°	1415.7	1409.7	1412.1	1409.1	1415.1
27.5°	1367.1	1362.9	1360.5	1358.7	1362.9
30°	1310.0	1307.6	1307.6	1299.8	1304.6
32.5°	1256.0	1248.2	1248.2	1245.2	1242.2
35°	1192.3	1186.3	1183.3	1174.9	1178.5
37.5°	1128.7	1114.9	1113.7	1107.1	1107.1
40°	1055.5	1047.7	1043.5	1036.3	1035.0
42.5°	985.8	978.0	970.8	958.8	956.4
45°	911.4	904.2	894.6	883.2	883.8
47.5°	837.5	827.3	818.3	804.5	802.7
50°	761.3	754.1	740.9	728.9	728.3
52.5°	689.8	678.4	666.4	652.0	652.0
55°	619.6	610.6	596.8	581.2	579.4
57.5°	552.3	543.9	528.3	516.9	513.9
60°	490.5	478.5	464.1	454.5	452.1
62.5°	428.7	417.9	407.1	397.4	396.8
65°	373.4	362.0	352.4	345.8	346.4
67.5°	323.6	314.0	303.2	301.4	302.0
70°	276.8	266.6	258.8	263.0	266.0
72.5°	232.3	226.9	221.5	227.5	231.7
75°	195.7	190.9	186.7	195.1	200.5
77.5°	162.1	158.5	157.9	165.1	169.9
80°	130.3	126.1	127.9	136.3	140.5
82.5°	99.1	96.1	96.7	106.9	109.9
85°	66.6	65.4	67.2	76.2	76.8
87.5°	35.4	35.4	36.6	42.0	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)