

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: P293248

Luminaire Tested: **24GR-LD5-48-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293248
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-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5042.0 lumens
Efficiency: N/A
Efficacy: 149.4 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

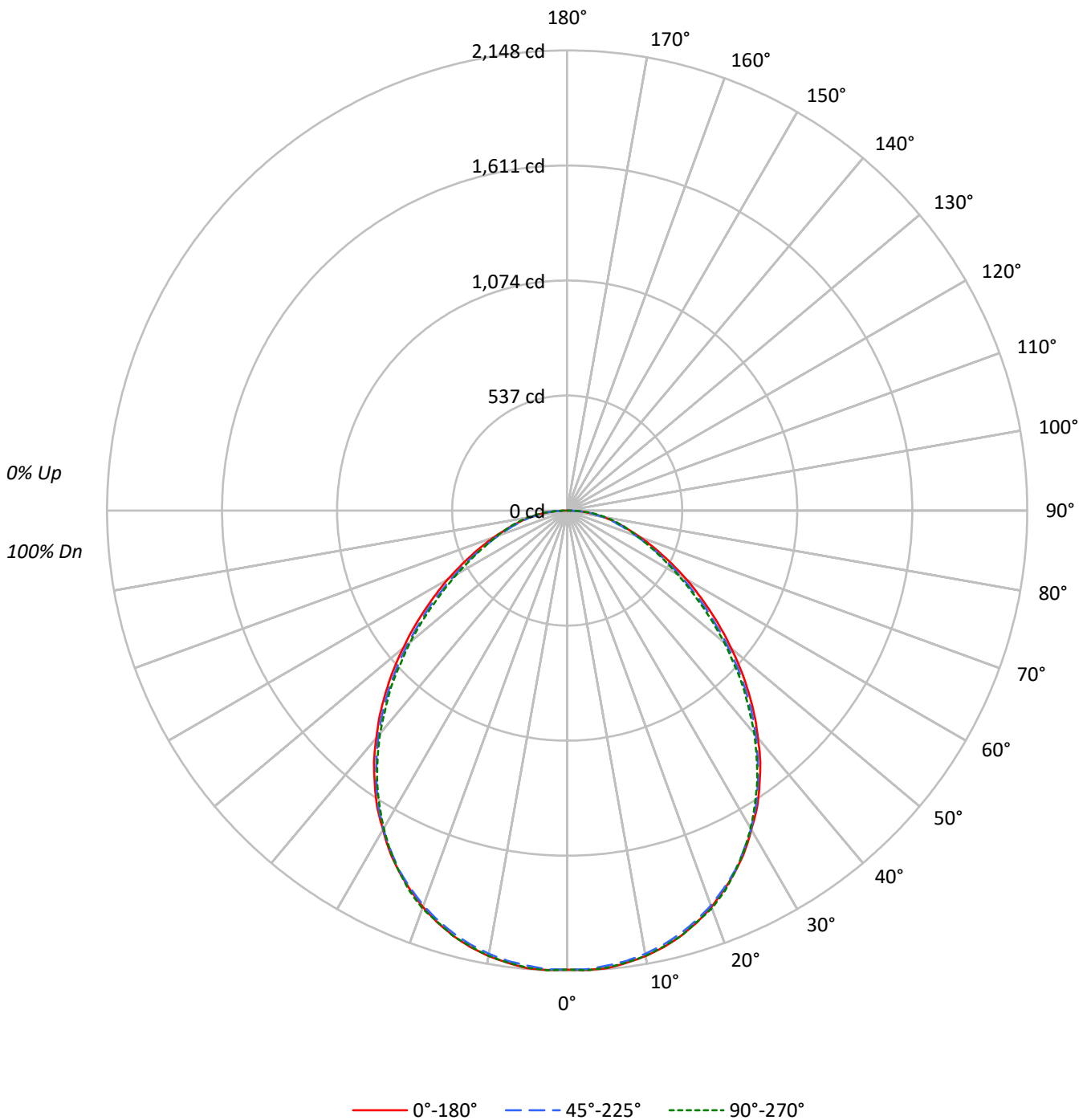
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2883	2883	2883
5°	2896	2880	2892
10°	2885	2871	2883
15°	2862	2846	2864
20°	2820	2809	2829
25°	2759	2752	2758
30°	2672	2667	2661
35°	2571	2551	2541
40°	2434	2406	2386
45°	2276	2234	2207
50°	2092	2036	2001
55°	1908	1838	1784
60°	1733	1639	1597
65°	1561	1473	1448
70°	1429	1336	1373
75°	1336	1274	1368
80°	1325	1301	1429
85°	1351	1363	1558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	4.0
10°-20°	576.6	11.4
20°-30°	851.8	16.9
30°-40°	968.4	19.2
40°-50°	904.3	17.9
50°-60°	703.3	13.9
60°-70°	466.6	9.3
70°-80°	270.0	5.4
80°-90°	98.2	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°	1631.1	32.4
0°-40°	2599.5	51.6
0°-60°	4207.1	83.4
0°-90°	5042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2143	2143	2143	2143	2143	
5°	2144	2133	2133	2136	2141	203
15°	2055	2044	2044	2043	2056	579
25°	1858	1850	1854	1850	1858	854
35°	1565	1557	1553	1542	1547	977
45°	1196	1187	1174	1159	1160	922
55°	813	802	783	763	760	729
65°	490	475	463	454	455	490
75°	257	251	245	256	263	275
85°	88	86	88	100	101	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2142.8	2142.8	2142.8	2142.8	2142.8
2.5°	2146.0	2139.7	2142.8	2140.5	2147.6
5°	2144.4	2133.4	2132.6	2136.5	2141.3
7.5°	2129.5	2117.6	2120.0	2120.0	2127.9
10°	2111.3	2099.5	2101.1	2101.9	2110.5
12.5°	2086.9	2075.1	2075.9	2075.1	2083.7
15°	2054.6	2044.3	2043.5	2042.8	2056.2
17.5°	2015.2	2001.0	2005.7	2006.5	2013.6
20°	1969.5	1958.4	1961.6	1960.8	1975.8
22.5°	1915.1	1907.2	1909.6	1908.0	1922.2
25°	1858.3	1850.5	1853.6	1849.7	1857.6
27.5°	1794.5	1789.0	1785.8	1783.5	1789.0
30°	1719.6	1716.5	1716.5	1706.2	1712.5
32.5°	1648.7	1638.5	1638.5	1634.5	1630.6
35°	1565.2	1557.3	1553.3	1542.3	1547.0
37.5°	1481.6	1463.5	1461.9	1453.3	1453.3
40°	1385.5	1375.2	1369.7	1360.3	1358.7
42.5°	1294.1	1283.8	1274.4	1258.6	1255.4
45°	1196.3	1186.9	1174.3	1159.3	1160.1
47.5°	1099.4	1086.0	1074.2	1056.1	1053.7
50°	999.3	989.9	972.5	956.8	956.0
52.5°	905.5	890.6	874.8	855.9	855.9
55°	813.3	801.5	783.4	762.9	760.5
57.5°	725.1	714.0	693.5	678.6	674.6
60°	643.9	628.1	609.2	596.6	593.4
62.5°	562.7	548.5	534.3	521.7	520.9
65°	490.2	475.2	462.6	453.9	454.7
67.5°	424.8	412.2	398.0	395.6	396.4
70°	363.3	349.9	339.7	345.2	349.1
72.5°	305.0	297.9	290.8	298.7	304.2
75°	256.9	250.6	245.1	256.1	263.2
77.5°	212.8	208.1	207.3	216.7	223.0
80°	171.0	165.5	167.9	178.9	184.4
82.5°	130.0	126.1	126.9	140.3	144.2
85°	87.5	85.9	88.3	100.1	100.9
87.5°	46.5	46.5	48.1	55.2	52.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)