

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: P293128

Luminaire Tested: **24GR-LD5-56-F1-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-F1-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4977.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

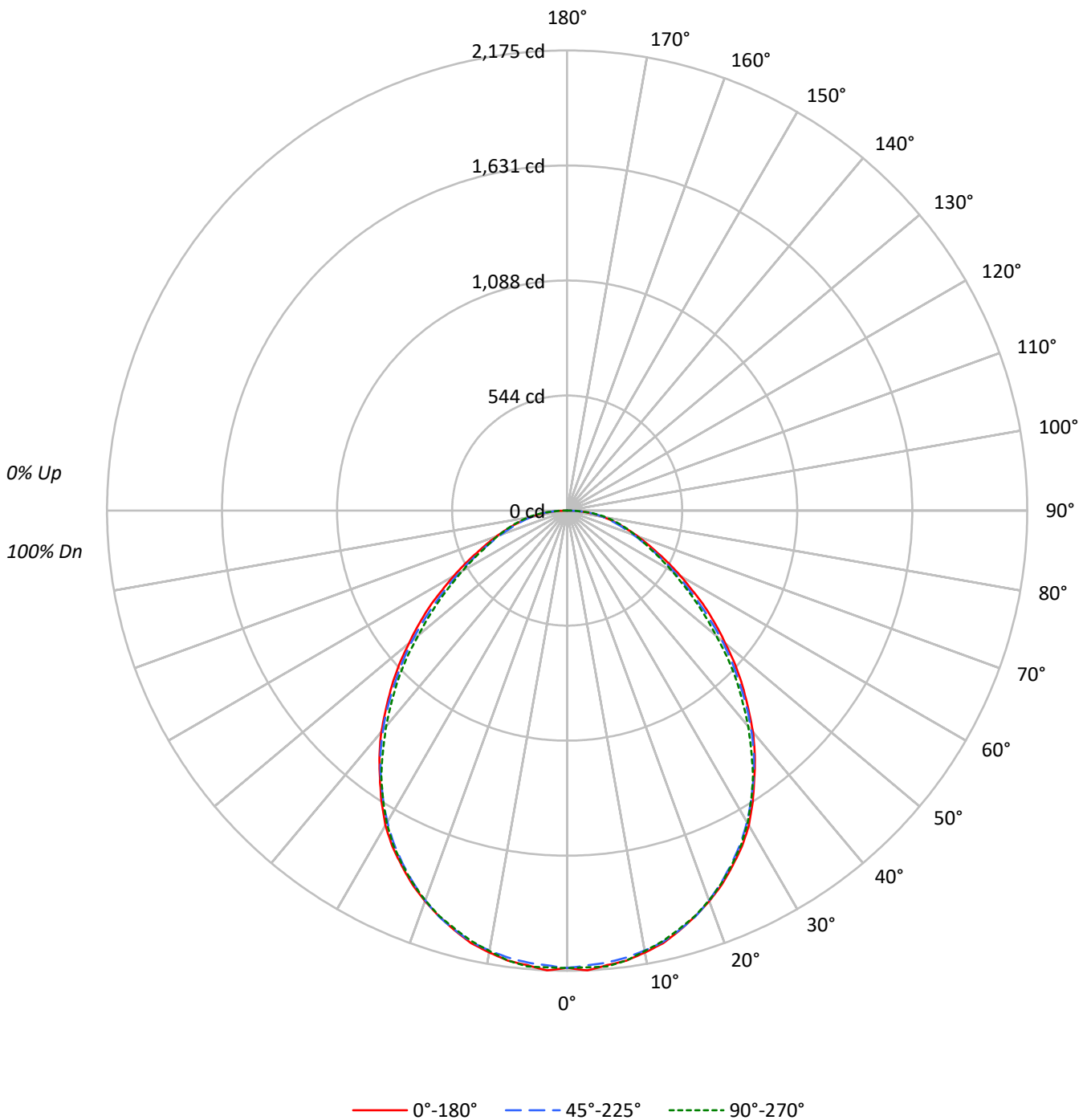
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	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	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2909	2909	2909
5°	2913	2896	2921
10°	2898	2885	2888
15°	2861	2858	2851
20°	2813	2807	2807
25°	2748	2733	2739
30°	2668	2641	2649
35°	2534	2522	2516
40°	2400	2378	2337
45°	2231	2192	2149
50°	2043	1998	1923
55°	1866	1782	1722
60°	1663	1583	1541
65°	1497	1418	1399
70°	1389	1304	1357
75°	1329	1270	1377
80°	1328	1328	1471
85°	1379	1394	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	4.1
10°-20°	577.8	11.6
20°-30°	848.0	17.0
30°-40°	958.7	19.3
40°-50°	886.0	17.8
50°-60°	682.6	13.7
60°-70°	452.0	9.1
70°-80°	269.1	5.4
80°-90°	98.6	2.0
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°	1629.9	32.7
0°-40°	2588.6	52.0
0°-60°	4157.3	83.5
0°-90°	4977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2162	2162	2162	2162	2162	
5°	2157	2157	2144	2146	2163	205
15°	2054	2050	2052	2051	2047	579
25°	1851	1846	1841	1838	1845	852
35°	1543	1541	1536	1528	1532	965
45°	1172	1164	1152	1131	1129	903
55°	796	779	760	739	734	710
65°	470	463	446	441	439	471
75°	256	249	244	256	265	273
85°	89	84	90	100	101	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2161.9	2161.9	2161.9	2161.9	2161.9
2.5°	2175.2	2163.9	2151.6	2151.6	2160.9
5°	2156.8	2156.8	2144.4	2145.5	2162.9
7.5°	2145.5	2139.3	2131.1	2131.1	2144.4
10°	2120.8	2115.7	2111.6	2109.5	2113.6
12.5°	2094.1	2085.9	2089.0	2085.9	2084.9
15°	2054.1	2050.0	2052.1	2051.0	2046.9
17.5°	2011.0	2008.9	2013.0	2005.9	2008.9
20°	1964.8	1958.6	1960.7	1956.6	1960.7
22.5°	1912.4	1908.3	1903.2	1898.1	1906.3
25°	1850.8	1845.7	1840.6	1838.5	1844.7
27.5°	1789.3	1781.0	1773.9	1771.8	1781.0
30°	1717.4	1708.2	1699.9	1697.9	1705.1
32.5°	1632.2	1630.1	1619.9	1615.8	1618.9
35°	1542.9	1540.8	1535.7	1528.5	1531.6
37.5°	1457.7	1456.7	1449.5	1437.2	1428.9
40°	1366.3	1359.1	1354.0	1336.6	1330.4
42.5°	1265.7	1263.7	1254.4	1234.9	1227.7
45°	1172.3	1164.1	1151.8	1131.2	1129.2
47.5°	1075.8	1064.5	1053.2	1027.6	1026.5
50°	976.2	968.0	954.7	929.0	918.8
52.5°	883.8	872.6	854.1	829.4	824.3
55°	795.6	779.1	759.6	739.1	734.0
57.5°	701.1	693.9	670.3	653.9	647.7
60°	618.0	611.8	588.2	572.8	572.8
62.5°	543.0	533.8	513.3	503.0	503.0
65°	470.2	463.0	445.5	441.4	439.4
67.5°	407.5	398.3	386.0	385.0	390.1
70°	353.1	341.8	331.6	341.8	344.9
72.5°	301.8	294.6	285.4	298.7	304.9
75°	255.6	249.4	244.3	255.6	264.8
77.5°	213.5	207.4	207.4	219.7	227.9
80°	171.4	167.3	171.4	181.7	189.9
82.5°	131.4	128.3	133.5	143.7	148.8
85°	89.3	84.2	90.3	99.6	100.6
87.5°	42.1	41.1	45.2	51.3	50.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)