

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: P293817

Luminaire Tested: **24GR-LD5-56-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4799.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

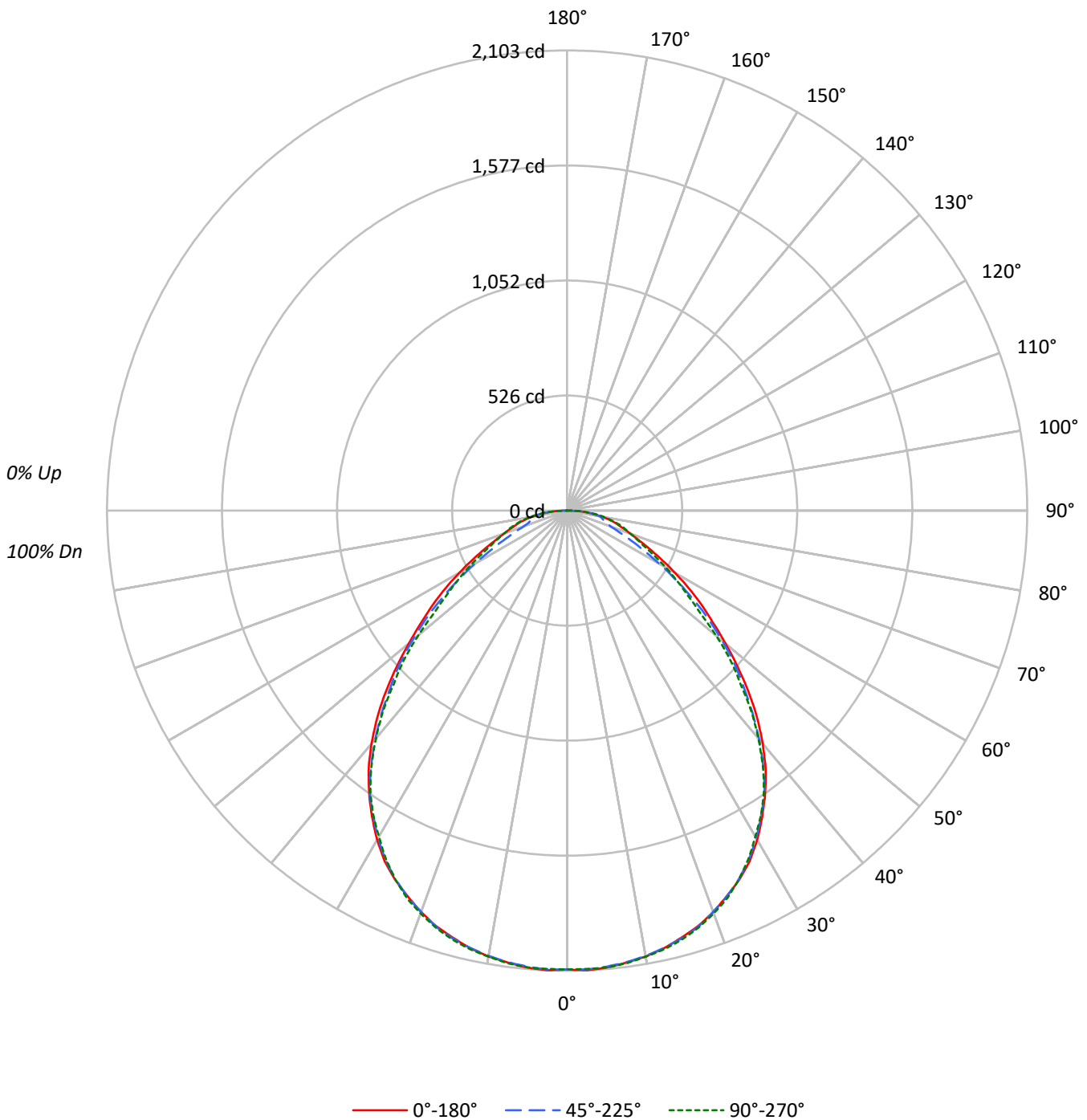
Input Watts (W): 39.707373
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2821	2821	2821
5°	2831	2825	2830
10°	2827	2823	2828
15°	2814	2819	2826
20°	2795	2795	2805
25°	2763	2757	2760
30°	2699	2685	2672
35°	2592	2585	2575
40°	2442	2397	2387
45°	2234	2172	2132
50°	1975	1935	1860
55°	1756	1637	1574
60°	1529	1309	1404
65°	1321	1015	1242
70°	1205	830	1202
75°	1214	895	1277
80°	1265	1166	1346
85°	1317	1386	1491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	4.1
10°-20°	570.5	11.9
20°-30°	854.0	17.8
30°-40°	975.8	20.3
40°-50°	882.2	18.4
50°-60°	634.7	13.2
60°-70°	368.0	7.7
70°-80°	218.3	4.5
80°-90°	96.7	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°	1623.4	33.8
0°-40°	2599.2	54.2
0°-60°	4116.1	85.8
0°-90°	4799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2097	2097	2097	2097	2097	
5°	2096	2093	2092	2089	2096	199
15°	2020	2024	2024	2021	2029	570
25°	1861	1859	1857	1854	1859	856
35°	1578	1571	1574	1554	1568	984
45°	1174	1154	1142	1131	1121	902
55°	749	734	698	680	671	670
65°	415	368	319	356	390	419
75°	234	195	172	213	246	247
85°	85	92	90	103	97	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2097.0	2097.0	2097.0	2097.0	2097.0
2.5°	2103.0	2095.5	2099.2	2097.0	2096.2
5°	2096.2	2093.3	2091.8	2088.8	2095.5
7.5°	2082.8	2080.5	2081.3	2082.0	2086.5
10°	2069.3	2065.6	2066.3	2067.8	2070.0
12.5°	2048.3	2046.1	2046.8	2048.3	2053.6
15°	2019.9	2023.6	2023.6	2021.4	2028.9
17.5°	1991.4	1990.7	1994.4	1987.7	1998.2
20°	1951.8	1952.5	1951.8	1952.5	1959.2
22.5°	1906.8	1910.6	1908.3	1908.3	1915.8
25°	1861.2	1858.9	1857.4	1853.7	1858.9
27.5°	1806.5	1802.0	1798.3	1790.8	1794.5
30°	1736.9	1737.6	1727.9	1721.2	1719.7
32.5°	1659.0	1659.0	1650.0	1644.8	1649.3
35°	1578.2	1570.7	1573.7	1554.2	1567.7
37.5°	1490.6	1478.6	1471.9	1465.1	1469.6
40°	1390.3	1374.5	1364.8	1351.3	1358.8
42.5°	1284.7	1265.2	1253.3	1243.5	1246.5
45°	1173.9	1153.7	1141.7	1131.2	1120.7
47.5°	1057.1	1044.4	1038.4	1024.9	1012.9
50°	943.3	938.8	924.6	913.4	888.7
52.5°	839.2	835.5	813.0	794.3	762.9
55°	748.7	734.4	697.8	679.8	670.8
57.5°	656.6	633.4	589.2	586.9	592.9
60°	568.2	539.8	486.6	498.6	521.8
62.5°	488.1	445.5	394.5	423.0	450.7
65°	414.8	368.3	318.9	356.4	390.1
67.5°	354.1	307.7	256.8	307.0	345.9
70°	306.2	259.0	211.1	268.8	305.5
72.5°	266.5	223.8	184.2	238.8	277.0
75°	233.6	195.4	172.2	212.6	245.6
77.5°	200.6	169.9	164.7	189.4	209.6
80°	163.2	149.0	150.5	166.2	173.7
82.5°	122.0	122.8	126.5	139.3	136.3
85°	85.3	92.1	89.8	103.3	96.6
87.5°	47.2	51.7	48.7	59.1	53.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)