

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: P292348

Luminaire Tested: **22GR-LD5-40-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A125-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4261.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

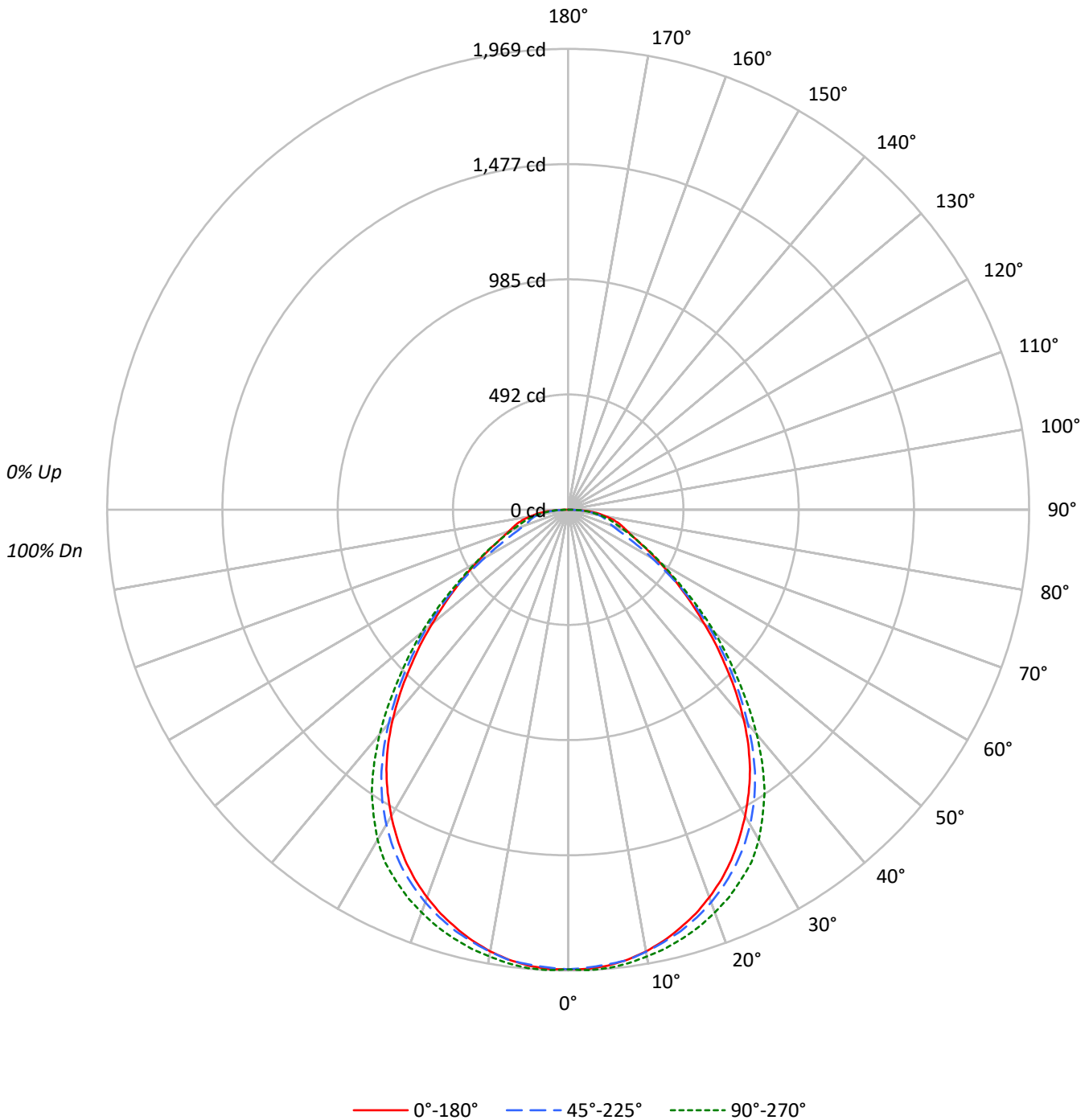
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5285	5285	5285
5°	5281	5268	5311
10°	5237	5242	5296
15°	5154	5190	5278
20°	5047	5113	5243
25°	4900	5000	5183
30°	4695	4828	5060
35°	4448	4573	4804
40°	4090	4192	4401
45°	3633	3766	3902
50°	3173	3319	3419
55°	2759	2797	2899
60°	2427	2224	2476
65°	2157	1778	2170
70°	2118	1579	2001
75°	2313	1735	2045
80°	2540	2063	2187
85°	3038	2393	2455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	4.4
10°-20°	526.4	12.4
20°-30°	777.1	18.2
30°-40°	869.6	20.4
40°-50°	763.6	17.9
50°-60°	540.3	12.7
60°-70°	314.5	7.4
70°-80°	196.0	4.6
80°-90°	87.7	2.1
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°	1489.2	34.9
0°-40°	2358.8	55.4
0°-60°	3662.8	86.0
0°-90°	4261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1955	1950	1950	1960	1966	185
15°	1850	1854	1863	1883	1895	521
25°	1650	1657	1684	1724	1746	758
35°	1354	1360	1392	1434	1462	842
45°	955	966	990	1013	1025	738
55°	588	600	596	607	618	532
65°	339	312	279	304	341	344
75°	222	192	167	171	197	232
85°	98	102	78	76	80	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1964.1	1964.1	1964.1	1964.1	1964.1
2.5°	1964.1	1960.1	1958.1	1965.1	1969.1
5°	1955.2	1950.2	1950.2	1960.1	1966.1
7.5°	1939.3	1934.3	1940.3	1949.2	1955.2
10°	1916.4	1914.4	1918.4	1930.3	1938.3
12.5°	1886.6	1887.6	1891.6	1910.5	1920.4
15°	1849.9	1853.8	1862.8	1882.6	1894.6
17.5°	1810.1	1813.1	1827.0	1849.9	1866.7
20°	1762.4	1768.4	1785.3	1814.1	1831.0
22.5°	1709.8	1716.7	1737.6	1772.4	1793.2
25°	1650.2	1657.1	1683.9	1723.7	1745.5
27.5°	1582.6	1593.5	1623.3	1667.1	1696.9
30°	1511.1	1520.0	1553.8	1603.5	1628.3
32.5°	1434.6	1445.5	1477.3	1525.0	1546.8
35°	1354.1	1360.1	1391.9	1433.6	1462.4
37.5°	1262.7	1265.7	1295.5	1334.2	1360.1
40°	1164.4	1166.3	1193.2	1229.9	1252.8
42.5°	1062.0	1063.0	1091.8	1119.7	1139.5
45°	954.7	965.7	989.5	1013.3	1025.3
47.5°	858.4	866.3	888.2	909.0	920.0
50°	758.0	777.9	792.8	803.7	816.6
52.5°	671.6	688.5	692.5	705.4	716.3
55°	588.1	600.1	596.1	607.0	617.9
57.5°	517.6	511.6	498.7	517.6	531.5
60°	451.0	435.1	413.3	439.1	460.0
62.5°	391.4	365.6	338.8	364.6	399.4
65°	338.8	312.0	279.2	304.0	340.8
67.5°	299.0	271.2	232.5	257.3	294.1
70°	269.2	240.4	200.7	221.5	254.3
72.5°	245.4	214.6	179.8	193.7	221.5
75°	222.5	191.7	166.9	170.9	196.7
77.5°	195.7	172.9	153.0	151.0	170.9
80°	163.9	157.0	133.1	130.1	141.1
82.5°	135.1	132.1	109.3	106.3	110.3
85°	98.4	102.3	77.5	75.5	79.5
87.5°	51.7	56.6	40.7	42.7	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)