

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: P292353

Luminaire Tested: **22GR-LD5-43-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292353
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-LD5-43-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: 4550.0 lumens
Efficiency: N/A
Efficacy: 126.4 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

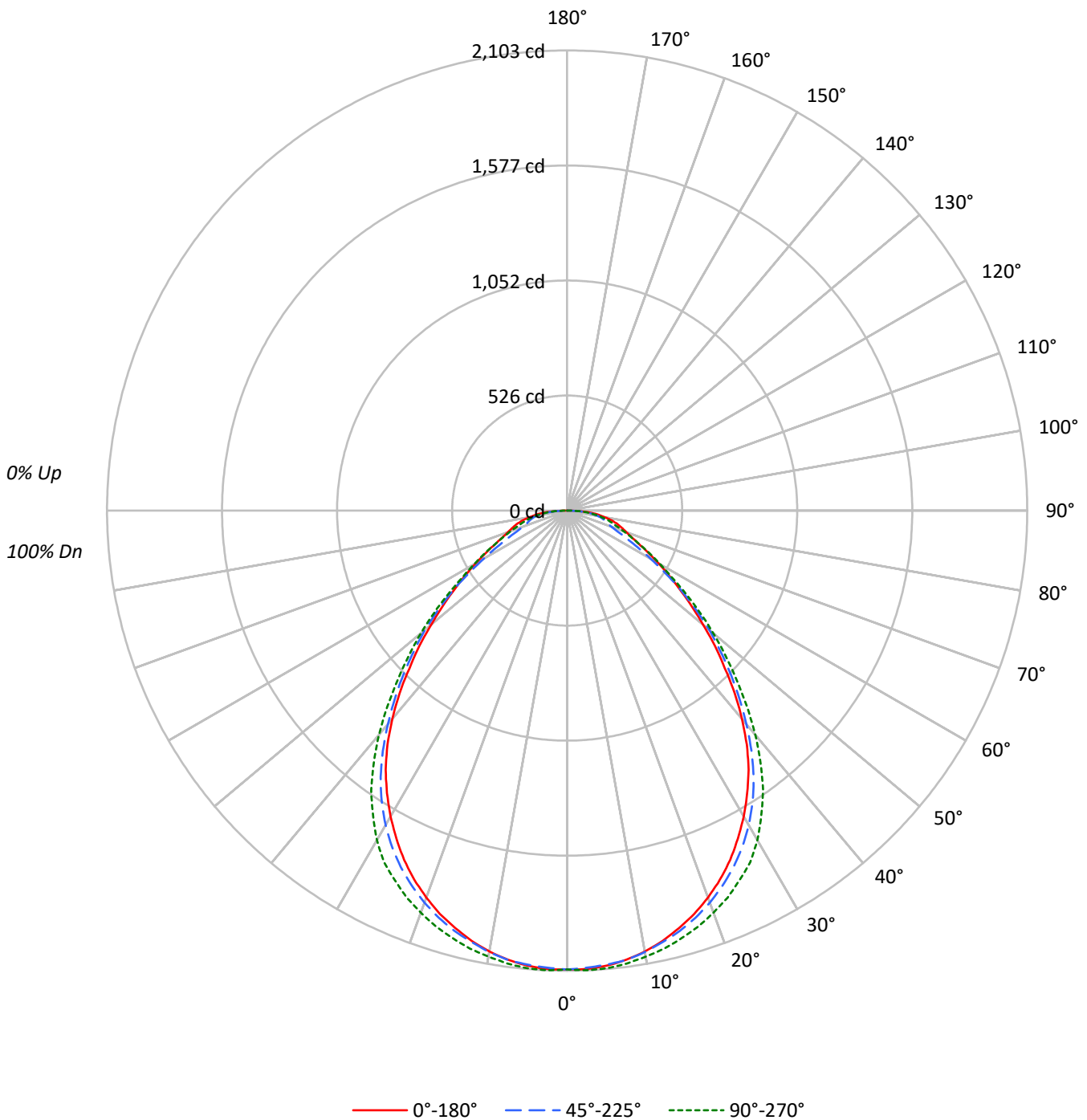
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292353

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P292353

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L83050-W2A1-U-4000K

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°	5644	5644	5644
5°	5640	5625	5671
10°	5592	5598	5655
15°	5503	5541	5636
20°	5389	5459	5599
25°	5232	5339	5534
30°	5014	5156	5403
35°	4750	4883	5130
40°	4367	4476	4699
45°	3880	4021	4166
50°	3388	3544	3651
55°	2946	2986	3096
60°	2592	2375	2644
65°	2304	1898	2317
70°	2262	1686	2137
75°	2470	1853	2184
80°	2712	2204	2334
85°	3242	2553	2621



TEST NUMBER: P292353

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	4.4
10°-20°	562.1	12.4
20°-30°	829.8	18.2
30°-40°	928.6	20.4
40°-50°	815.4	17.9
50°-60°	577.0	12.7
60°-70°	335.9	7.4
70°-80°	209.3	4.6
80°-90°	93.7	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°	1590.2	34.9
0°-40°	2518.8	55.4
0°-60°	3911.2	86.0
0°-90°	4550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2097	2097	2097	2097	2097	
5°	2088	2082	2082	2093	2099	198
15°	1975	1980	1989	2010	2023	557
25°	1762	1770	1798	1841	1864	809
35°	1446	1452	1486	1531	1562	899
45°	1020	1031	1057	1082	1095	789
55°	628	641	636	648	660	568
65°	362	333	298	325	364	367
75°	238	205	178	182	210	248
85°	105	109	83	81	85	107
90°	0	0	0	0	0	



TEST NUMBER: P292353

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2097.3	2097.3	2097.3	2097.3	2097.3
2.5°	2097.3	2093.1	2091.0	2098.4	2102.6
5°	2087.8	2082.5	2082.5	2093.1	2099.4
7.5°	2070.8	2065.5	2071.9	2081.4	2087.8
10°	2046.4	2044.3	2048.5	2061.3	2069.7
12.5°	2014.6	2015.6	2019.9	2040.0	2050.6
15°	1975.3	1979.6	1989.1	2010.3	2023.1
17.5°	1932.9	1936.1	1950.9	1975.3	1993.4
20°	1882.0	1888.3	1906.4	1937.1	1955.2
22.5°	1825.7	1833.2	1855.4	1892.6	1914.9
25°	1762.1	1769.5	1798.2	1840.6	1863.9
27.5°	1690.0	1701.6	1733.4	1780.1	1812.0
30°	1613.6	1623.1	1659.2	1712.2	1738.8
32.5°	1531.9	1543.6	1577.5	1628.4	1651.8
35°	1446.0	1452.3	1486.3	1530.8	1561.6
37.5°	1348.4	1351.5	1383.4	1424.7	1452.3
40°	1243.3	1245.5	1274.1	1313.3	1337.7
42.5°	1134.1	1135.1	1165.9	1195.6	1216.8
45°	1019.5	1031.2	1056.6	1082.1	1094.8
47.5°	916.6	925.1	948.4	970.7	982.4
50°	809.4	830.7	846.6	858.2	872.0
52.5°	717.1	735.2	739.4	753.2	764.9
55°	628.0	640.8	636.5	648.2	659.9
57.5°	552.7	546.3	532.6	552.7	567.6
60°	481.6	464.7	441.3	468.9	491.2
62.5°	418.0	390.4	361.8	389.3	426.5
65°	361.8	333.1	298.1	324.6	363.9
67.5°	319.3	289.6	248.2	274.8	314.0
70°	287.5	256.7	214.3	236.6	271.6
72.5°	262.0	229.1	192.0	206.9	236.6
75°	237.6	204.7	178.2	182.5	210.1
77.5°	209.0	184.6	163.4	161.3	182.5
80°	175.0	167.6	142.2	139.0	150.6
82.5°	144.3	141.1	116.7	113.5	117.8
85°	105.0	109.3	82.7	80.6	84.9
87.5°	55.2	60.5	43.5	45.6	46.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)