

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: P292437

Luminaire Tested: **22GR-LD5-32-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292437
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-LD5-32-A125-UNV-L93050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2995.0 lumens
Efficiency: N/A
Efficacy: 117.1 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

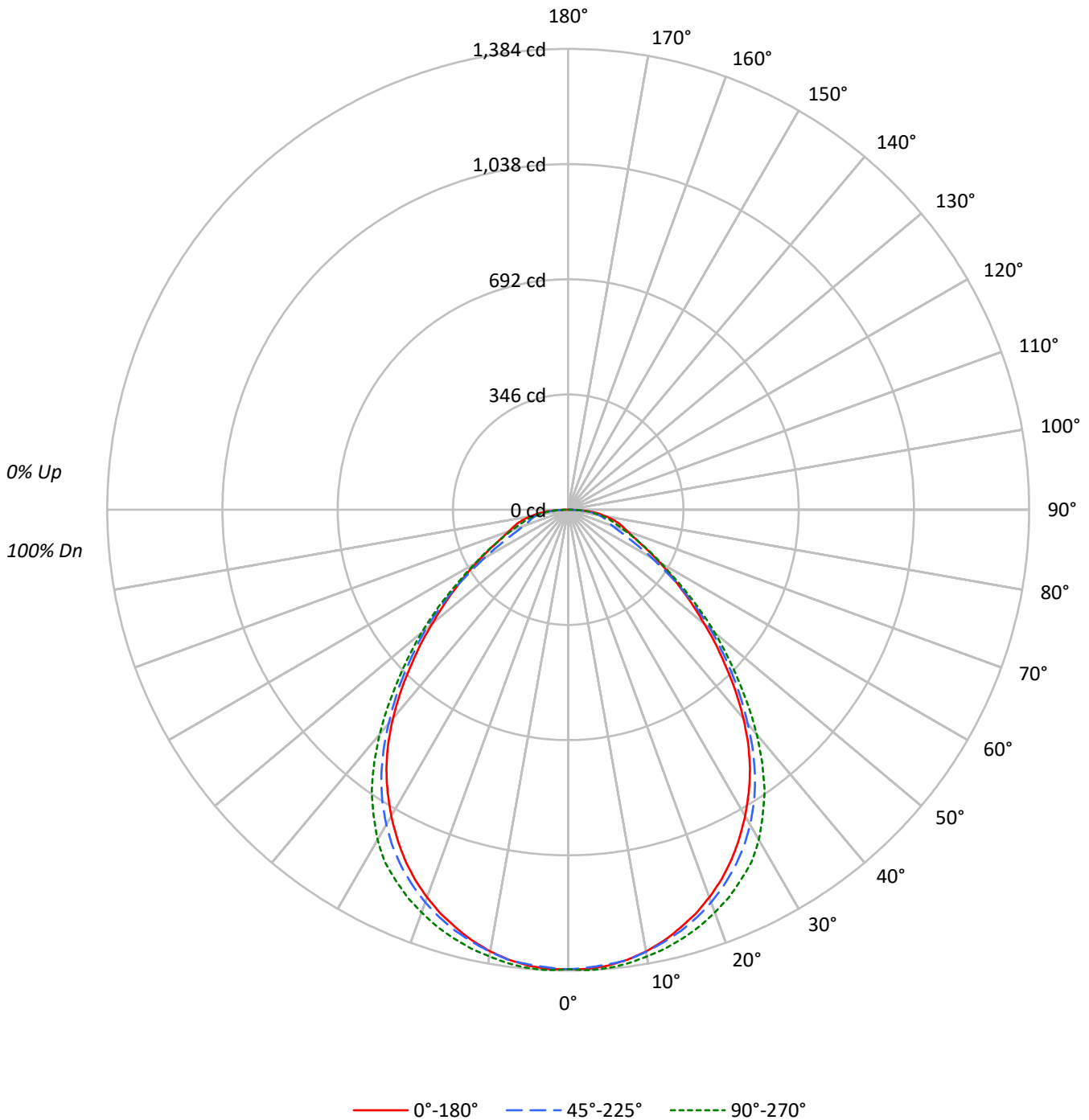
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3715	3715	3715
5°	3712	3703	3733
10°	3681	3684	3723
15°	3622	3648	3710
20°	3548	3594	3686
25°	3444	3514	3643
30°	3300	3393	3556
35°	3127	3214	3377
40°	2875	2946	3093
45°	2554	2647	2742
50°	2231	2333	2403
55°	1939	1966	2038
60°	1706	1563	1740
65°	1516	1249	1525
70°	1489	1110	1407
75°	1626	1220	1438
80°	1785	1450	1537
85°	2133	1683	1726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	4.4
10°-20°	370.0	12.4
20°-30°	546.2	18.2
30°-40°	611.2	20.4
40°-50°	536.8	17.9
50°-60°	379.8	12.7
60°-70°	221.1	7.4
70°-80°	137.8	4.6
80°-90°	61.6	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°	1046.7	34.9
0°-40°	1658.0	55.4
0°-60°	2574.5	86.0
0°-90°	2995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1374	1371	1371	1378	1382	130
15°	1300	1303	1309	1323	1332	366
25°	1160	1165	1184	1212	1227	533
35°	952	956	978	1008	1028	592
45°	671	679	696	712	721	519
55°	413	422	419	427	434	374
65°	238	219	196	214	240	242
75°	156	135	117	120	138	163
85°	69	72	54	53	56	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1380.5	1380.5	1380.5	1380.5	1380.5
2.5°	1380.5	1377.8	1376.4	1381.2	1384.0
5°	1374.3	1370.8	1370.8	1377.8	1381.9
7.5°	1363.1	1359.6	1363.8	1370.1	1374.3
10°	1347.0	1345.6	1348.4	1356.8	1362.4
12.5°	1326.1	1326.8	1329.6	1342.8	1349.8
15°	1300.2	1303.0	1309.3	1323.3	1331.7
17.5°	1272.3	1274.4	1284.2	1300.2	1312.1
20°	1238.8	1243.0	1254.9	1275.1	1287.0
22.5°	1201.8	1206.7	1221.3	1245.8	1260.4
25°	1159.9	1164.8	1183.6	1211.6	1226.9
27.5°	1112.4	1120.1	1141.0	1171.8	1192.7
30°	1062.1	1068.4	1092.1	1127.1	1144.5
32.5°	1008.4	1016.0	1038.4	1071.9	1087.3
35°	951.8	956.0	978.3	1007.7	1027.9
37.5°	887.5	889.6	910.6	937.8	956.0
40°	818.4	819.8	838.7	864.5	880.6
42.5°	746.5	747.2	767.4	787.0	801.0
45°	671.1	678.8	695.5	712.3	720.6
47.5°	603.3	608.9	624.3	638.9	646.6
50°	532.8	546.8	557.2	564.9	574.0
52.5°	472.1	483.9	486.7	495.8	503.5
55°	413.4	421.8	419.0	426.7	434.3
57.5°	363.8	359.6	350.5	363.8	373.6
60°	317.0	305.9	290.5	308.7	323.3
62.5°	275.1	257.0	238.1	256.3	280.7
65°	238.1	219.3	196.2	213.7	239.5
67.5°	210.2	190.6	163.4	180.9	206.7
70°	189.2	169.0	141.1	155.7	178.8
72.5°	172.5	150.8	126.4	136.2	155.7
75°	156.4	134.8	117.3	120.1	138.3
77.5°	137.6	121.5	107.5	106.1	120.1
80°	115.2	110.3	93.6	91.5	99.2
82.5°	95.0	92.9	76.8	74.7	77.5
85°	69.1	71.9	54.5	53.1	55.9
87.5°	36.3	39.8	28.6	30.0	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)