

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: P292328

Luminaire Tested: **22GR-LD5-24-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292328
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-LD5-24-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: 2550.0 lumens
Efficiency: N/A
Efficacy: 137.8 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

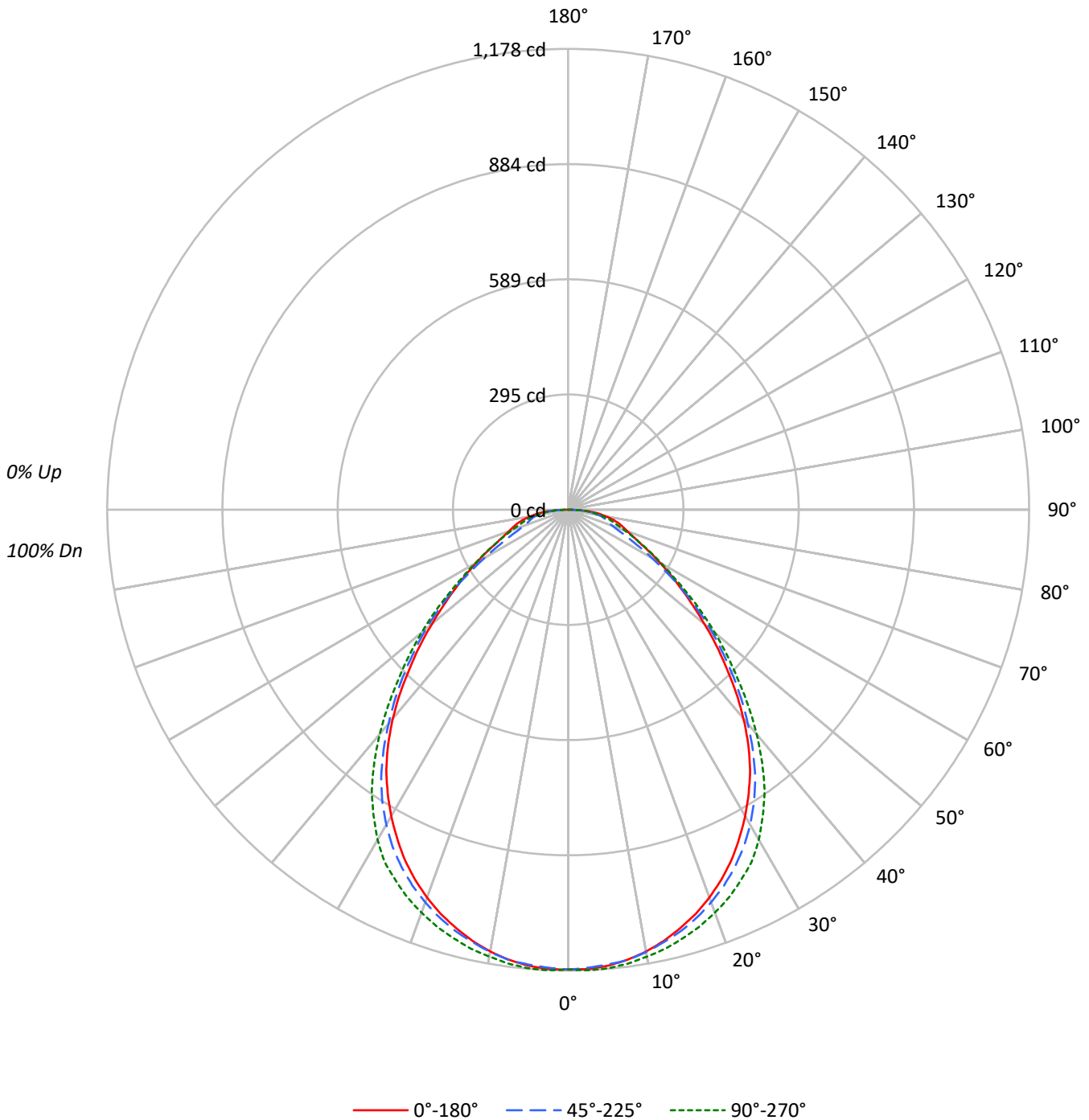
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3163	3163	3163
5°	3161	3153	3178
10°	3134	3137	3170
15°	3084	3106	3159
20°	3020	3060	3138
25°	2932	2992	3102
30°	2810	2889	3028
35°	2662	2736	2875
40°	2448	2509	2634
45°	2175	2254	2335
50°	1899	1986	2046
55°	1651	1673	1735
60°	1453	1331	1482
65°	1291	1064	1298
70°	1268	945	1197
75°	1385	1039	1224
80°	1520	1235	1308
85°	1819	1433	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	4.4
10°-20°	315.0	12.4
20°-30°	465.1	18.2
30°-40°	520.4	20.4
40°-50°	457.0	17.9
50°-60°	323.4	12.7
60°-70°	188.2	7.4
70°-80°	117.3	4.6
80°-90°	52.5	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°	891.2	34.9
0°-40°	1411.6	55.4
0°-60°	2192.0	86.0
0°-90°	2550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1170	1167	1167	1173	1177	111
15°	1107	1109	1115	1127	1134	312
25°	988	992	1008	1032	1045	454
35°	810	814	833	858	875	504
45°	571	578	592	606	614	442
55°	352	359	357	363	370	318
65°	203	187	167	182	204	206
75°	133	115	100	102	118	139
85°	59	61	46	45	48	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.4	1175.4	1175.4	1175.4	1175.4
2.5°	1175.4	1173.0	1171.9	1176.0	1178.4
5°	1170.1	1167.1	1167.1	1173.0	1176.6
7.5°	1160.6	1157.6	1161.2	1166.5	1170.1
10°	1146.9	1145.7	1148.1	1155.2	1160.0
12.5°	1129.0	1129.6	1132.0	1143.3	1149.3
15°	1107.1	1109.4	1114.8	1126.7	1133.8
17.5°	1083.3	1085.1	1093.4	1107.1	1117.2
20°	1054.7	1058.3	1068.4	1085.6	1095.8
22.5°	1023.2	1027.4	1039.9	1060.7	1073.2
25°	987.5	991.7	1007.8	1031.5	1044.6
27.5°	947.1	953.7	971.5	997.7	1015.5
30°	904.3	909.7	929.9	959.6	974.5
32.5°	858.5	865.1	884.1	912.6	925.7
35°	810.4	813.9	833.0	857.9	875.2
37.5°	755.7	757.5	775.3	798.5	813.9
40°	696.8	698.0	714.1	736.1	749.7
42.5°	635.6	636.2	653.4	670.1	681.9
45°	571.4	577.9	592.2	606.4	613.6
47.5°	513.7	518.4	531.5	544.0	550.6
50°	453.6	465.5	474.5	481.0	488.7
52.5°	401.9	412.0	414.4	422.1	428.7
55°	352.0	359.1	356.7	363.3	369.8
57.5°	309.8	306.2	298.5	309.8	318.1
60°	269.9	260.4	247.3	262.8	275.3
62.5°	234.3	218.8	202.7	218.2	239.0
65°	202.7	186.7	167.1	181.9	203.9
67.5°	179.0	162.3	139.1	154.0	176.0
70°	161.1	143.9	120.1	132.6	152.2
72.5°	146.9	128.4	107.6	115.9	132.6
75°	133.2	114.7	99.9	102.3	117.7
77.5°	117.1	103.5	91.6	90.4	102.3
80°	98.1	93.9	79.7	77.9	84.4
82.5°	80.9	79.1	65.4	63.6	66.0
85°	58.9	61.2	46.4	45.2	47.6
87.5°	30.9	33.9	24.4	25.6	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)