

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: P291949

Luminaire Tested: **22GR-LD5-36-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-F125-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3419.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

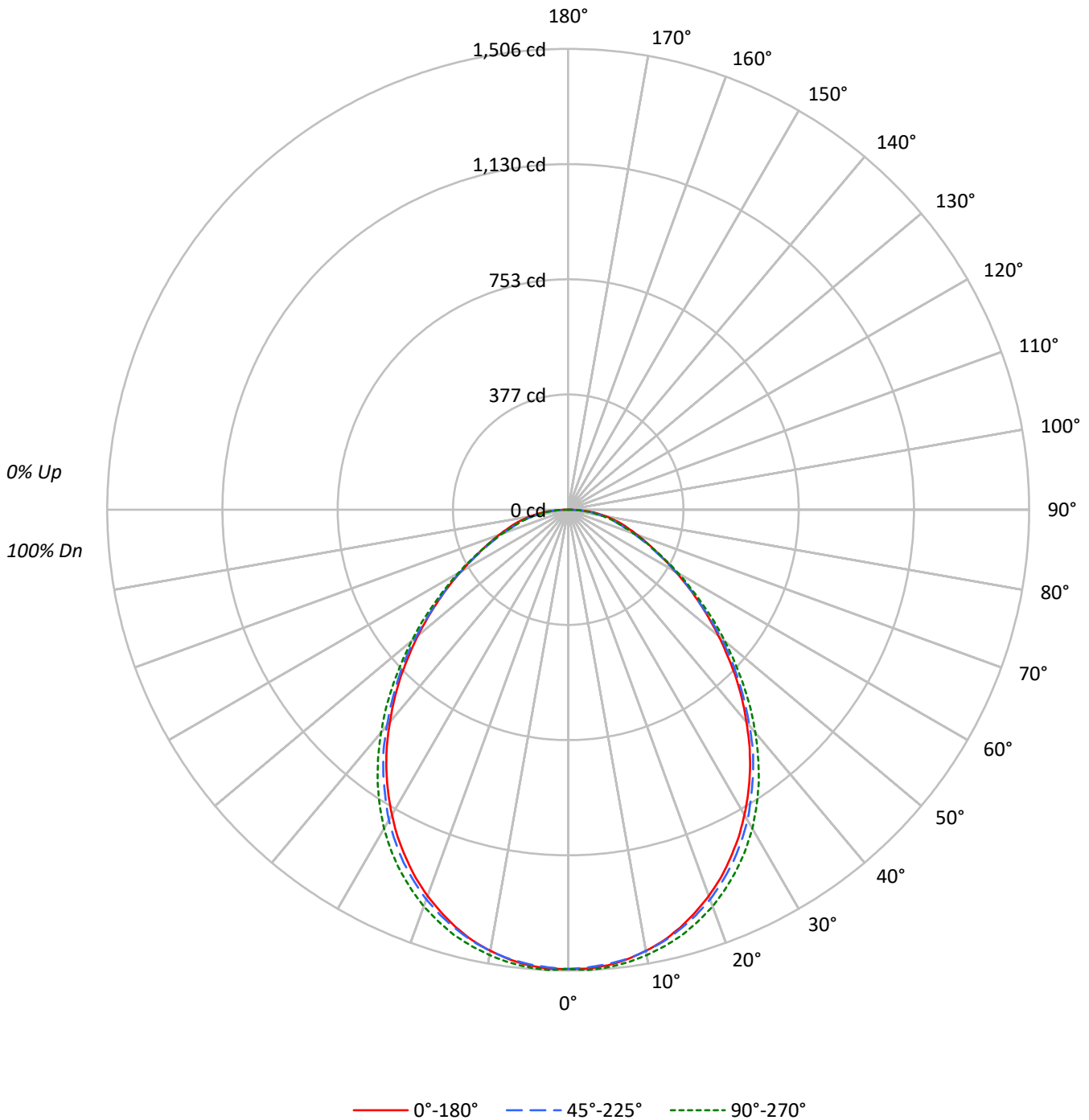
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4039	4039	4039
5°	4037	4026	4055
10°	4000	4002	4038
15°	3938	3952	4009
20°	3846	3880	3951
25°	3726	3778	3861
30°	3579	3641	3737
35°	3404	3458	3565
40°	3183	3235	3341
45°	2947	2992	3080
50°	2683	2727	2797
55°	2423	2430	2501
60°	2173	2182	2233
65°	1980	1940	1985
70°	1885	1779	1810
75°	1897	1716	1724
80°	1967	1734	1722
85°	2155	1837	1738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	4.1
10°-20°	400.6	11.7
20°-30°	586.3	17.1
30°-40°	659.2	19.3
40°-50°	607.9	17.8
50°-60°	468.5	13.7
60°-70°	309.2	9.0
70°-80°	180.0	5.3
80°-90°	65.6	1.9
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°	1128.7	33.0
0°-40°	1787.9	52.3
0°-60°	2864.3	83.8
0°-90°	3419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1495	1491	1491	1498	1501	142
15°	1414	1414	1418	1431	1439	398
25°	1255	1261	1272	1290	1300	577
35°	1036	1041	1053	1074	1085	646
45°	774	775	786	802	809	596
55°	516	516	518	527	533	463
65°	311	309	305	307	312	312
75°	182	174	165	162	166	192
85°	70	69	60	55	56	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.0	1501.0	1501.0	1501.0	1501.0
2.5°	1501.0	1497.8	1497.0	1502.5	1505.7
5°	1494.6	1491.4	1490.6	1497.8	1501.0
7.5°	1481.9	1479.5	1480.3	1488.3	1492.2
10°	1463.7	1462.9	1464.5	1473.2	1477.9
12.5°	1442.2	1441.5	1444.6	1454.1	1460.5
15°	1413.7	1413.7	1418.5	1431.1	1439.1
17.5°	1379.6	1382.0	1389.1	1401.8	1410.5
20°	1343.1	1345.5	1355.0	1369.3	1379.6
22.5°	1302.6	1305.8	1315.3	1332.8	1341.5
25°	1255.0	1261.4	1272.5	1289.9	1300.2
27.5°	1205.8	1213.0	1223.3	1244.7	1254.2
30°	1151.9	1156.7	1171.7	1191.6	1202.7
32.5°	1094.8	1099.5	1112.2	1136.0	1145.5
35°	1036.1	1040.8	1052.7	1074.2	1085.3
37.5°	972.6	976.6	990.9	1007.5	1019.4
40°	906.0	911.5	921.0	940.9	951.2
42.5°	840.9	843.3	853.6	873.4	881.4
45°	774.3	775.1	786.2	802.0	809.2
47.5°	705.3	706.8	720.3	729.9	737.0
50°	641.0	641.8	651.3	660.0	668.0
52.5°	576.7	576.7	581.5	591.0	601.3
55°	516.4	515.7	518.0	526.8	533.1
57.5°	459.3	458.5	461.7	467.3	472.0
60°	403.8	402.2	405.4	408.6	414.9
62.5°	354.6	356.2	352.2	357.0	361.8
65°	311.0	309.4	304.6	307.0	311.8
67.5°	273.7	271.3	263.4	265.0	270.5
70°	239.6	234.8	226.1	226.1	230.1
72.5°	208.6	203.9	192.8	193.6	195.2
75°	182.5	174.5	165.0	161.8	165.8
77.5°	153.9	147.6	138.8	136.5	138.0
80°	126.9	122.2	111.9	108.7	111.1
82.5°	100.8	96.8	84.9	82.5	83.3
85°	69.8	69.0	59.5	54.7	56.3
87.5°	37.3	38.1	30.9	27.8	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)