

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: P291155

Luminaire Tested: **14GR-LD5-28-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A125-UNV-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2755.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

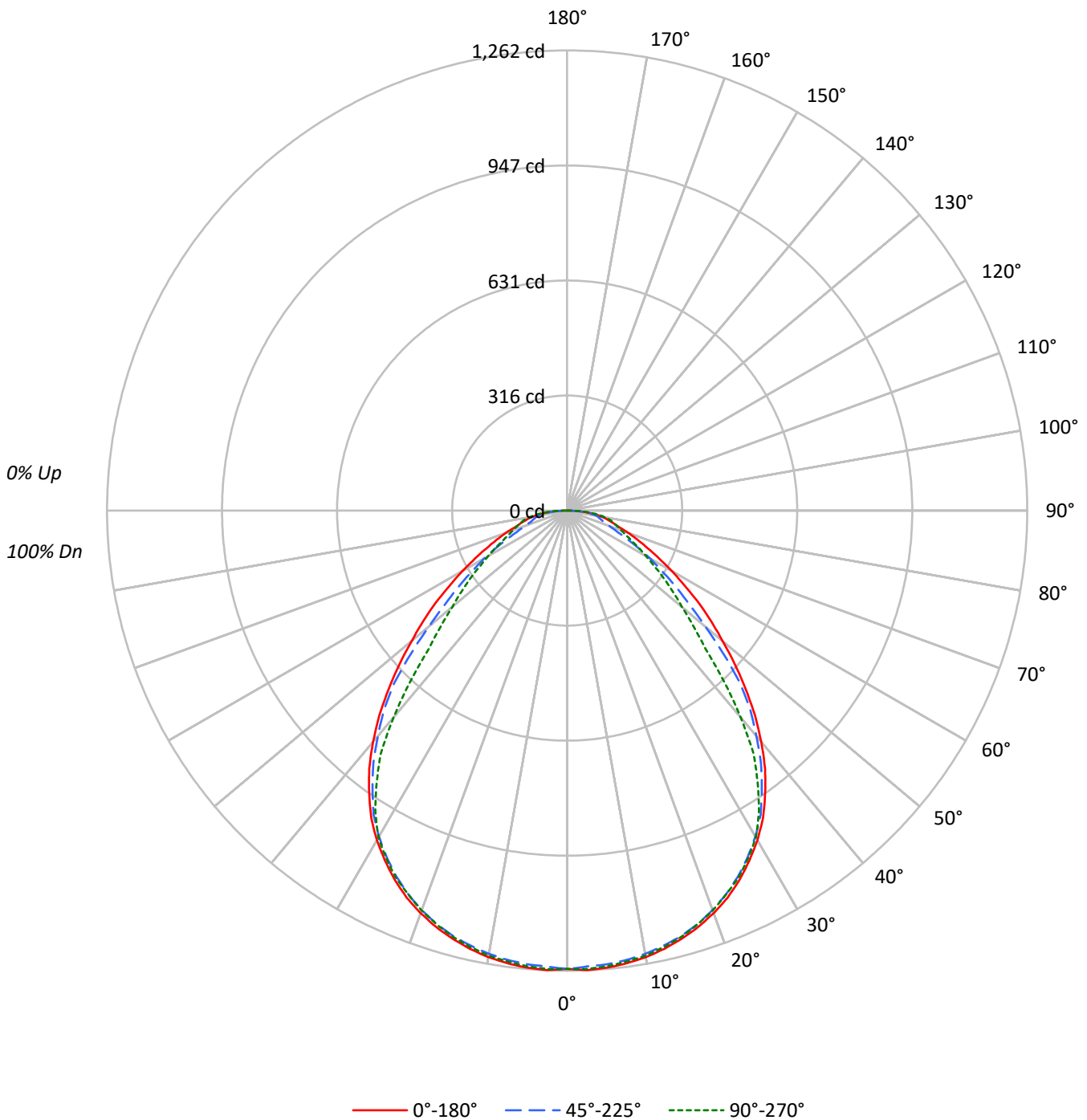
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3383	3383	3383
5°	3400	3374	3389
10°	3399	3372	3386
15°	3387	3365	3371
20°	3364	3338	3342
25°	3319	3289	3298
30°	3243	3207	3215
35°	3110	3057	2992
40°	2908	2836	2602
45°	2632	2556	2041
50°	2328	2069	1721
55°	2060	1700	1517
60°	1778	1407	1345
65°	1547	1119	1237
70°	1398	961	1237
75°	1342	1003	1382
80°	1495	1277	1615
85°	1578	1362	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	4.3
10°-20°	341.8	12.4
20°-30°	511.5	18.6
30°-40°	579.0	21.0
40°-50°	493.2	17.9
50°-60°	333.9	12.1
60°-70°	199.3	7.2
70°-80°	124.5	4.5
80°-90°	52.6	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°	972.5	35.3
0°-40°	1551.4	56.3
0°-60°	2378.5	86.3
0°-90°	2755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1258	1255	1249	1257	1255	120
15°	1216	1211	1208	1216	1210	343
25°	1118	1115	1108	1113	1111	514
35°	947	941	931	921	911	590
45°	692	694	672	573	536	533
55°	439	415	362	323	323	393
65°	243	203	176	188	194	245
75°	129	116	96	127	133	139
85°	51	47	44	56	63	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1261.7	1258.5	1251.4	1259.7	1258.5
5°	1258.5	1255.3	1248.9	1256.6	1254.6
7.5°	1252.1	1248.9	1243.1	1250.8	1247.6
10°	1243.8	1239.9	1234.2	1242.5	1239.3
12.5°	1231.0	1227.2	1222.0	1230.3	1225.9
15°	1215.6	1211.2	1208.0	1215.6	1209.9
17.5°	1197.1	1193.3	1188.8	1196.5	1190.1
20°	1174.7	1171.5	1165.8	1170.3	1167.1
22.5°	1149.2	1144.7	1139.0	1144.1	1139.6
25°	1117.9	1114.7	1107.6	1112.7	1110.8
27.5°	1082.1	1080.2	1071.8	1078.2	1075.0
30°	1043.7	1038.6	1032.2	1034.1	1034.8
32.5°	999.6	993.2	988.1	983.6	979.2
35°	946.6	940.8	930.6	921.0	910.8
37.5°	891.6	883.9	873.7	852.6	839.8
40°	827.7	823.9	807.2	777.8	740.8
42.5°	762.5	758.7	744.0	678.1	637.9
45°	691.6	693.5	671.7	572.7	536.2
47.5°	623.8	628.9	581.6	488.9	469.8
50°	556.1	561.8	494.1	422.5	411.0
52.5°	496.6	492.1	421.2	370.7	365.6
55°	439.1	414.8	362.4	323.4	323.4
57.5°	380.3	345.8	308.1	283.1	283.1
60°	330.4	287.6	261.4	244.8	249.9
62.5°	284.4	239.0	216.7	213.5	219.9
65°	242.9	202.6	175.8	187.9	194.3
67.5°	209.0	173.2	144.4	170.0	173.8
70°	177.7	150.8	122.1	156.6	157.2
72.5°	148.9	132.9	104.8	141.9	144.4
75°	129.1	115.7	96.5	126.6	132.9
77.5°	113.1	99.1	88.8	109.3	121.4
80°	96.5	81.2	82.4	92.0	104.2
82.5°	74.1	62.6	65.2	75.4	85.0
85°	51.1	47.3	44.1	55.6	62.6
87.5°	27.5	25.6	22.4	31.3	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)