

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: P291309

Luminaire Tested: **14GR-LD5-32-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291309
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-LD5-32-A125-UNV-L92765-W2A1-U-4500K
Description: GRLED 1x4 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: 2998.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

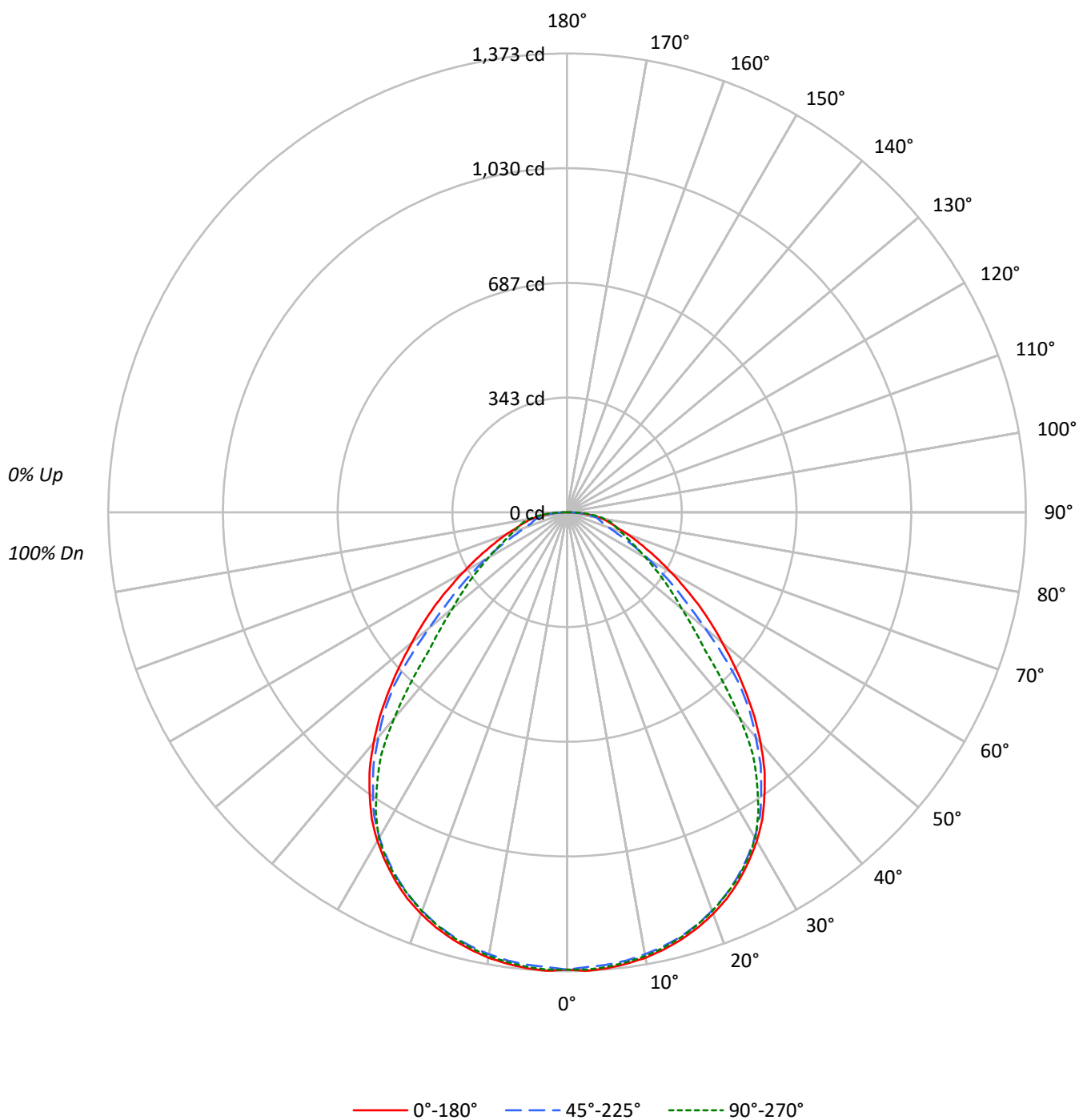
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	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		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64		
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36		
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3682	3682	3682
5°	3699	3671	3688
10°	3698	3670	3685
15°	3685	3662	3668
20°	3661	3633	3637
25°	3612	3579	3589
30°	3529	3490	3499
35°	3384	3327	3256
40°	3164	3086	2832
45°	2864	2782	2221
50°	2533	2251	1872
55°	2242	1850	1651
60°	1935	1531	1463
65°	1683	1218	1346
70°	1522	1045	1346
75°	1461	1092	1504
80°	1627	1390	1757
85°	1717	1482	2106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	4.3
10°-20°	371.9	12.4
20°-30°	556.6	18.6
30°-40°	630.0	21.0
40°-50°	536.6	17.9
50°-60°	363.3	12.1
60°-70°	216.9	7.2
70°-80°	135.5	4.5
80°-90°	57.3	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°	1058.2	35.3
0°-40°	1688.2	56.3
0°-60°	2588.2	86.3
0°-90°	2998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1370	1366	1359	1367	1365	130
15°	1323	1318	1314	1323	1317	373
25°	1216	1213	1205	1211	1209	559
35°	1030	1024	1013	1002	991	642
45°	752	755	731	623	584	580
55°	478	451	394	352	352	427
65°	264	220	191	204	211	266
75°	140	126	105	138	145	152
85°	56	52	48	60	68	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.1	1368.1	1368.1	1368.1	1368.1
2.5°	1373.0	1369.5	1361.8	1370.9	1369.5
5°	1369.5	1366.0	1359.0	1367.4	1365.3
7.5°	1362.5	1359.0	1352.8	1361.1	1357.6
10°	1353.5	1349.3	1343.0	1352.1	1348.6
12.5°	1339.6	1335.4	1329.8	1338.9	1334.0
15°	1322.9	1318.0	1314.5	1322.9	1316.6
17.5°	1302.7	1298.5	1293.7	1302.0	1295.1
20°	1278.4	1274.9	1268.6	1273.5	1270.0
22.5°	1250.5	1245.7	1239.4	1245.0	1240.1
25°	1216.5	1213.0	1205.3	1210.9	1208.8
27.5°	1177.5	1175.4	1166.4	1173.3	1169.9
30°	1135.8	1130.2	1123.3	1125.3	1126.0
32.5°	1087.8	1080.8	1075.3	1070.4	1065.5
35°	1030.1	1023.8	1012.7	1002.2	991.1
37.5°	970.2	961.9	950.8	927.8	913.9
40°	900.7	896.5	878.4	846.4	806.1
42.5°	829.8	825.6	809.6	737.9	694.1
45°	752.5	754.6	731.0	623.2	583.5
47.5°	678.8	684.4	632.9	532.1	511.2
50°	605.1	611.4	537.6	459.7	447.2
52.5°	540.4	535.5	458.3	403.4	397.8
55°	477.8	451.4	394.4	351.9	351.9
57.5°	413.8	376.3	335.2	308.1	308.1
60°	359.6	313.0	284.5	266.4	271.9
62.5°	309.5	260.1	235.8	232.3	239.3
65°	264.3	220.5	191.3	204.5	211.4
67.5°	227.4	188.5	157.2	185.0	189.2
70°	193.4	164.1	132.8	170.4	171.1
72.5°	162.1	144.7	114.1	154.4	157.2
75°	140.5	125.9	105.0	137.7	144.7
77.5°	123.1	107.8	96.7	118.9	132.1
80°	105.0	88.3	89.7	100.2	113.4
82.5°	80.7	68.2	70.9	82.1	92.5
85°	55.6	51.5	48.0	60.5	68.2
87.5°	29.9	27.8	24.3	34.1	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)