

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: P291118

Luminaire Tested: **14GR-LD5-36-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2895.0 lumens
Efficiency: N/A
Efficacy: 99.1 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

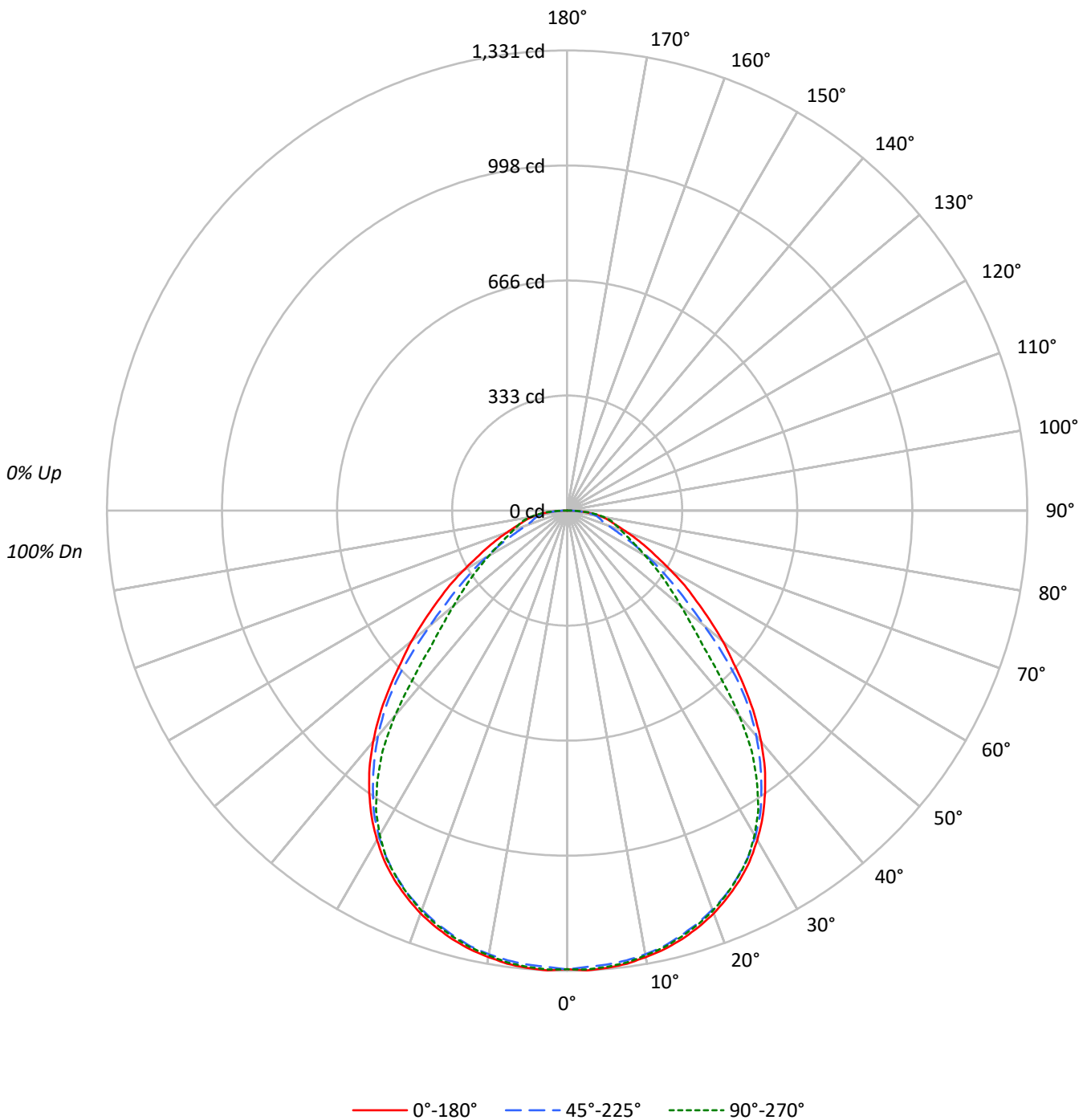
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3570	3570	3570
5°	3587	3560	3578
10°	3583	3561	3570
15°	3576	3544	3555
20°	3551	3518	3527
25°	3504	3470	3472
30°	3418	3383	3368
35°	3278	3218	3145
40°	3068	2990	2721
45°	2771	2666	2127
50°	2457	2165	1799
55°	2145	1776	1587
60°	1860	1462	1400
65°	1631	1173	1293
70°	1455	995	1301
75°	1419	1049	1455
80°	1573	1323	1667
85°	1639	1411	1951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	4.3
10°-20°	360.6	12.5
20°-30°	539.4	18.6
30°-40°	608.9	21.0
40°-50°	516.5	17.8
50°-60°	349.5	12.1
60°-70°	208.6	7.2
70°-80°	130.7	4.5
80°-90°	54.9	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°	1025.8	35.4
0°-40°	1634.7	56.5
0°-60°	2500.8	86.4
0°-90°	2895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1328	1324	1318	1327	1325	126
15°	1284	1281	1272	1281	1276	362
25°	1180	1176	1169	1174	1169	543
35°	998	991	980	971	958	622
45°	728	731	701	600	559	561
55°	457	436	379	339	338	412
65°	256	212	184	196	203	256
75°	136	122	101	133	140	147
85°	53	50	46	59	63	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.6	1326.6	1326.6	1326.6	1326.6
2.5°	1331.3	1327.3	1321.2	1329.3	1328.6
5°	1328.0	1323.9	1317.9	1327.3	1324.6
7.5°	1321.9	1318.5	1312.5	1321.2	1318.5
10°	1311.2	1308.5	1303.1	1310.5	1306.4
12.5°	1299.7	1297.7	1291.0	1297.7	1293.7
15°	1283.6	1280.9	1272.2	1280.9	1276.2
17.5°	1263.4	1260.1	1252.7	1260.1	1256.0
20°	1239.9	1235.8	1228.4	1235.8	1231.8
22.5°	1211.6	1208.3	1201.6	1208.3	1202.9
25°	1180.0	1176.0	1168.6	1174.0	1169.3
27.5°	1143.7	1138.3	1131.6	1135.7	1133.0
30°	1100.0	1093.3	1088.6	1088.6	1083.9
32.5°	1052.3	1047.6	1039.5	1034.8	1028.8
35°	997.8	991.1	979.7	970.9	957.5
37.5°	939.3	931.3	917.1	894.9	876.8
40°	873.4	863.3	851.2	807.5	774.6
42.5°	802.8	800.8	780.0	705.3	659.6
45°	728.2	730.9	700.6	600.4	558.8
47.5°	652.9	662.3	607.2	509.0	487.5
50°	587.0	590.4	517.1	441.8	429.7
52.5°	519.1	513.7	441.1	388.6	379.9
55°	457.2	435.7	378.6	338.9	338.2
57.5°	402.8	363.1	323.4	293.8	297.2
60°	345.6	301.2	271.6	255.5	260.2
62.5°	295.2	252.8	226.6	221.9	230.0
65°	256.2	212.5	184.2	196.3	203.1
67.5°	219.2	182.2	149.9	178.9	181.5
70°	184.9	158.0	126.4	164.7	165.4
72.5°	156.7	139.9	109.6	149.3	151.3
75°	136.5	121.7	100.9	133.1	139.9
77.5°	119.7	104.2	93.5	115.0	126.4
80°	101.5	84.0	85.4	96.2	107.6
82.5°	78.0	65.2	67.9	79.3	87.4
85°	53.1	50.4	45.7	59.2	63.2
87.5°	28.2	26.9	23.5	33.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)