

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: P291121

Luminaire Tested: **14GR-LD5-36-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291121
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3263.0 lumens
Efficiency: N/A
Efficacy: 110.0 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

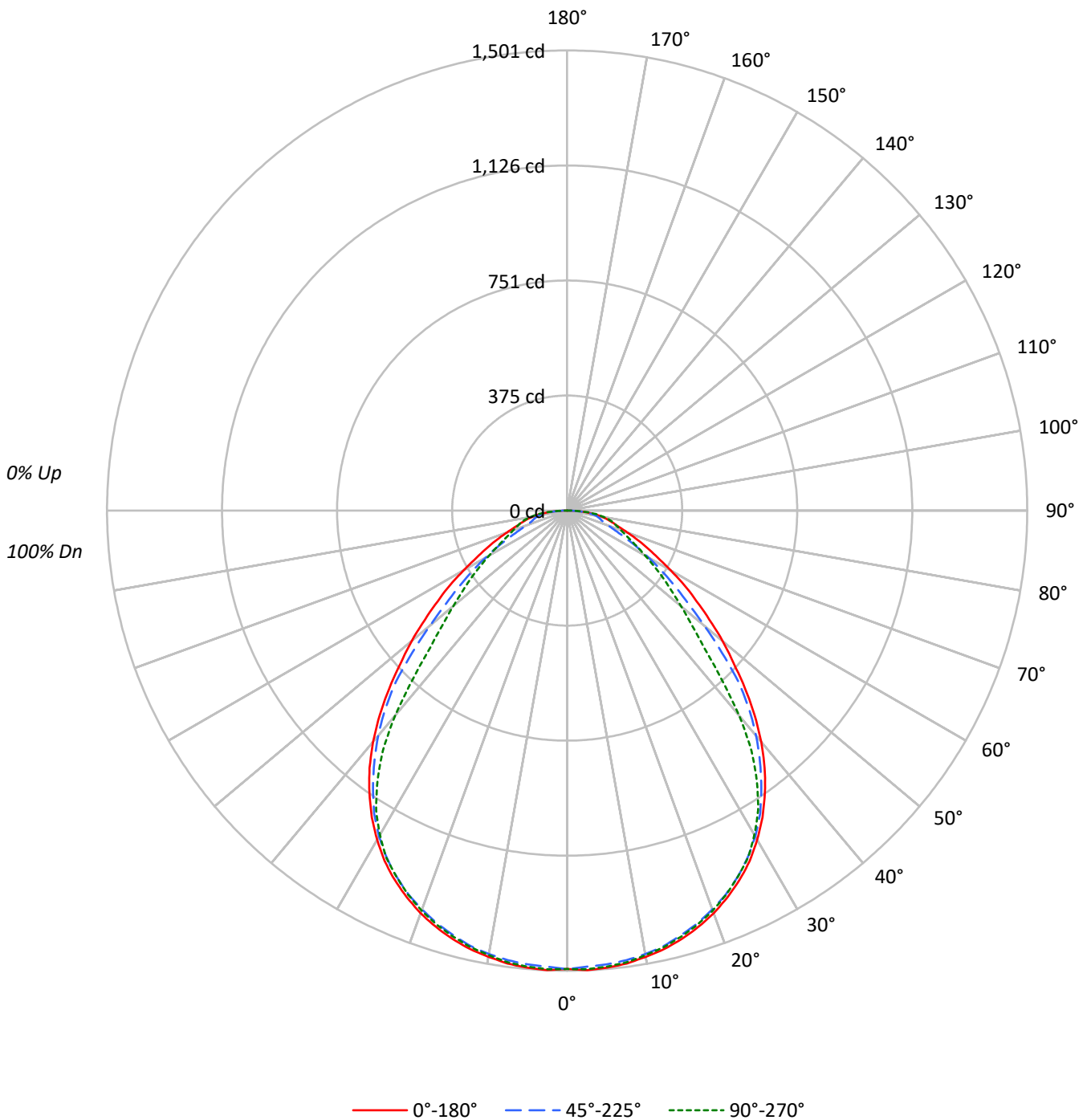
Input Watts (W): 29.667
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4024	4024	4024
5°	4043	4012	4033
10°	4038	4013	4024
15°	4030	3995	4007
20°	4002	3965	3976
25°	3949	3911	3913
30°	3853	3813	3796
35°	3695	3627	3545
40°	3458	3370	3067
45°	3124	3005	2397
50°	2770	2440	2027
55°	2418	2002	1788
60°	2096	1648	1579
65°	1838	1323	1457
70°	1640	1121	1467
75°	1599	1182	1639
80°	1773	1491	1880
85°	1849	1590	2198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	4.3
10°-20°	406.4	12.5
20°-30°	608.0	18.6
30°-40°	686.3	21.0
40°-50°	582.2	17.8
50°-60°	393.9	12.1
60°-70°	235.2	7.2
70°-80°	147.2	4.5
80°-90°	61.9	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°	1156.2	35.4
0°-40°	1842.5	56.5
0°-60°	2818.7	86.4
0°-90°	3263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1497	1492	1485	1496	1493	142
15°	1447	1444	1434	1444	1438	408
25°	1330	1326	1317	1323	1318	612
35°	1125	1117	1104	1094	1079	701
45°	821	824	790	677	630	632
55°	515	491	427	382	381	464
65°	289	240	208	221	229	289
75°	154	137	114	150	158	165
85°	60	57	52	67	71	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1500.6	1496.0	1489.2	1498.3	1497.5
5°	1496.8	1492.2	1485.4	1496.0	1493.0
7.5°	1489.9	1486.2	1479.3	1489.2	1486.2
10°	1477.8	1474.8	1468.7	1477.1	1472.5
12.5°	1464.9	1462.7	1455.1	1462.7	1458.1
15°	1446.7	1443.7	1433.9	1443.7	1438.4
17.5°	1424.0	1420.2	1411.9	1420.2	1415.7
20°	1397.5	1392.9	1384.6	1392.9	1388.4
22.5°	1365.7	1361.9	1354.3	1361.9	1355.8
25°	1330.0	1325.5	1317.2	1323.2	1317.9
27.5°	1289.1	1283.1	1275.5	1280.0	1277.0
30°	1239.9	1232.3	1227.0	1227.0	1221.7
32.5°	1186.0	1180.7	1171.6	1166.3	1159.5
35°	1124.7	1117.1	1104.2	1094.3	1079.2
37.5°	1058.7	1049.6	1033.7	1008.7	988.2
40°	984.5	973.1	959.4	910.2	873.1
42.5°	904.9	902.6	879.1	795.0	743.5
45°	820.8	823.8	789.7	676.8	629.8
47.5°	735.9	746.5	684.3	573.7	549.4
50°	661.6	665.4	582.8	497.9	484.3
52.5°	585.1	579.0	497.2	438.0	428.2
55°	515.3	491.1	426.7	382.0	381.2
57.5°	454.0	409.2	364.5	331.2	335.0
60°	389.5	339.5	306.2	288.0	293.3
62.5°	332.7	285.0	255.4	250.1	259.2
65°	288.7	239.5	207.7	221.3	228.9
67.5°	247.1	205.4	169.0	201.6	204.6
70°	208.4	178.1	142.5	185.7	186.4
72.5°	176.6	157.6	123.5	168.2	170.5
75°	153.8	137.2	113.7	150.1	157.6
77.5°	134.9	117.5	105.3	129.6	142.5
80°	114.4	94.7	96.2	108.4	121.3
82.5°	87.9	73.5	76.5	89.4	98.5
85°	59.9	56.8	51.5	66.7	71.2
87.5°	31.8	30.3	26.5	37.9	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)