

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: P291120

Luminaire Tested: **14GR-LD5-36-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291120
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3161.0 lumens
Efficiency: N/A
Efficacy: 107.6 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

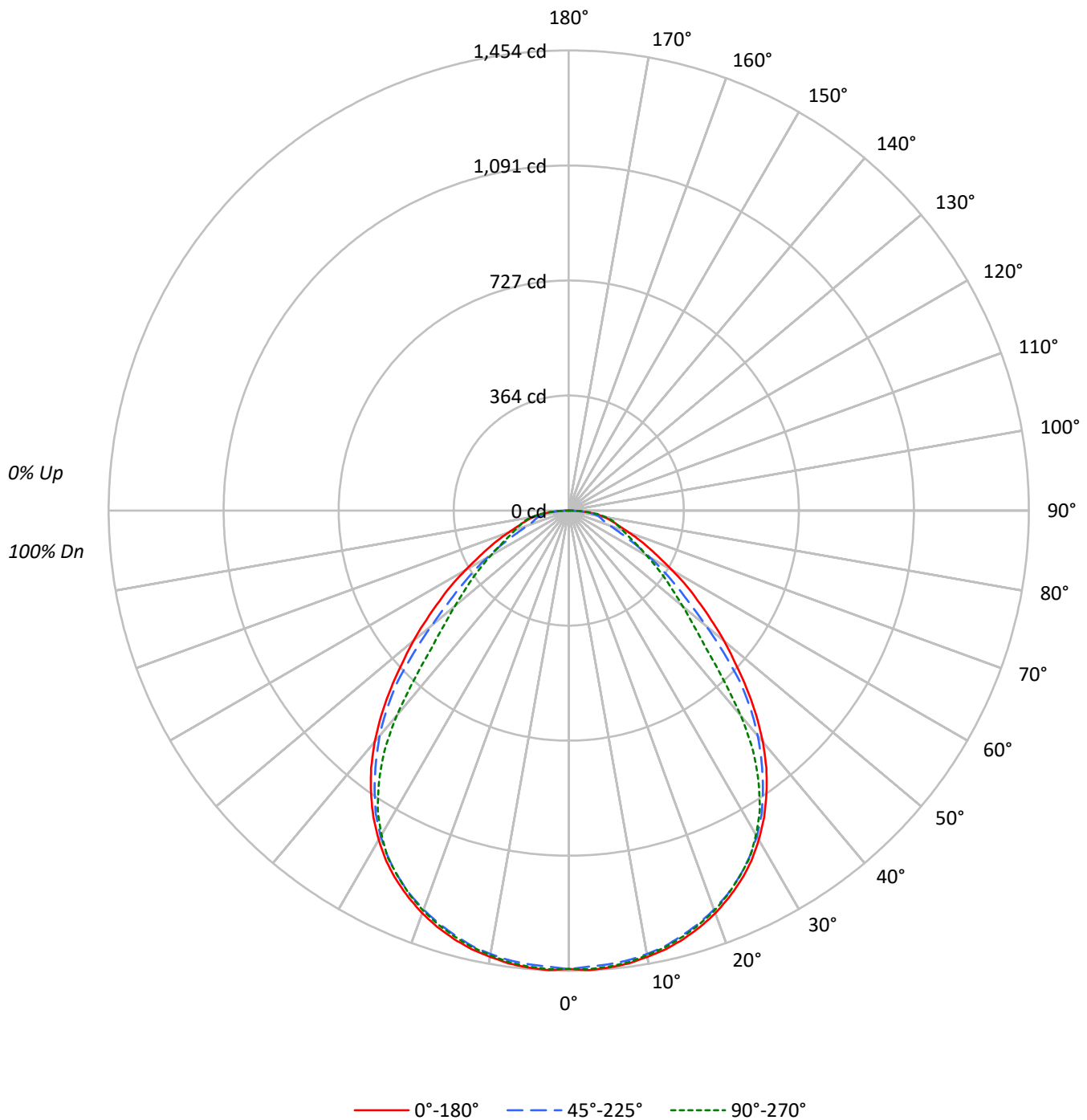
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3898	3898	3898
5°	3917	3887	3907
10°	3912	3888	3898
15°	3904	3870	3882
20°	3877	3841	3852
25°	3826	3789	3791
30°	3732	3693	3677
35°	3579	3514	3435
40°	3350	3265	2971
45°	3026	2911	2322
50°	2683	2364	1964
55°	2342	1939	1733
60°	2031	1596	1529
65°	1781	1281	1412
70°	1589	1086	1421
75°	1549	1145	1588
80°	1719	1444	1821
85°	1791	1541	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	4.3
10°-20°	393.7	12.5
20°-30°	589.0	18.6
30°-40°	664.8	21.0
40°-50°	564.0	17.8
50°-60°	381.6	12.1
60°-70°	227.8	7.2
70°-80°	142.6	4.5
80°-90°	60.0	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°	1120.1	35.4
0°-40°	1784.9	56.5
0°-60°	2730.5	86.4
0°-90°	3161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1450	1446	1439	1449	1446	138
15°	1402	1399	1389	1399	1393	395
25°	1288	1284	1276	1282	1277	592
35°	1090	1082	1070	1060	1046	679
45°	795	798	765	656	610	613
55°	499	476	413	370	369	450
65°	280	232	201	214	222	280
75°	149	133	110	145	153	160
85°	58	55	50	65	69	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.5	1448.5	1448.5	1448.5	1448.5
2.5°	1453.6	1449.2	1442.6	1451.4	1450.7
5°	1450.0	1445.6	1439.0	1449.2	1446.3
7.5°	1443.4	1439.7	1433.1	1442.6	1439.7
10°	1431.6	1428.7	1422.8	1430.9	1426.5
12.5°	1419.1	1416.9	1409.6	1416.9	1412.5
15°	1401.5	1398.6	1389.0	1398.6	1393.4
17.5°	1379.5	1375.8	1367.8	1375.8	1371.4
20°	1353.8	1349.4	1341.3	1349.4	1345.0
22.5°	1323.0	1319.3	1312.0	1319.3	1313.4
25°	1288.5	1284.1	1276.0	1281.9	1276.7
27.5°	1248.8	1242.9	1235.6	1240.0	1237.1
30°	1201.1	1193.8	1188.6	1188.6	1183.5
32.5°	1149.0	1143.8	1135.0	1129.9	1123.3
35°	1089.5	1082.2	1069.7	1060.1	1045.5
37.5°	1025.6	1016.8	1001.4	977.2	957.4
40°	953.7	942.7	929.5	881.7	845.8
42.5°	876.6	874.4	851.6	770.1	720.2
45°	795.1	798.0	765.0	655.6	610.1
47.5°	712.9	723.2	663.0	555.8	532.3
50°	640.9	644.6	564.6	482.3	469.1
52.5°	566.8	560.9	481.6	424.3	414.8
55°	499.2	475.7	413.3	370.0	369.3
57.5°	439.8	396.4	353.1	320.8	324.5
60°	377.4	328.9	296.6	279.0	284.1
62.5°	322.3	276.0	247.4	242.3	251.1
65°	279.7	232.0	201.2	214.4	221.7
67.5°	239.3	199.0	163.7	195.3	198.2
70°	201.9	172.5	138.0	179.9	180.6
72.5°	171.1	152.7	119.7	163.0	165.2
75°	149.0	132.9	110.1	145.4	152.7
77.5°	130.7	113.8	102.0	125.5	138.0
80°	110.9	91.8	93.2	105.0	117.5
82.5°	85.2	71.2	74.2	86.6	95.4
85°	58.0	55.1	49.9	64.6	69.0
87.5°	30.8	29.4	25.7	36.7	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)