

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: P291522

Luminaire Tested: **14GR-LD5-40-A19/156-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A19/156-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3512.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

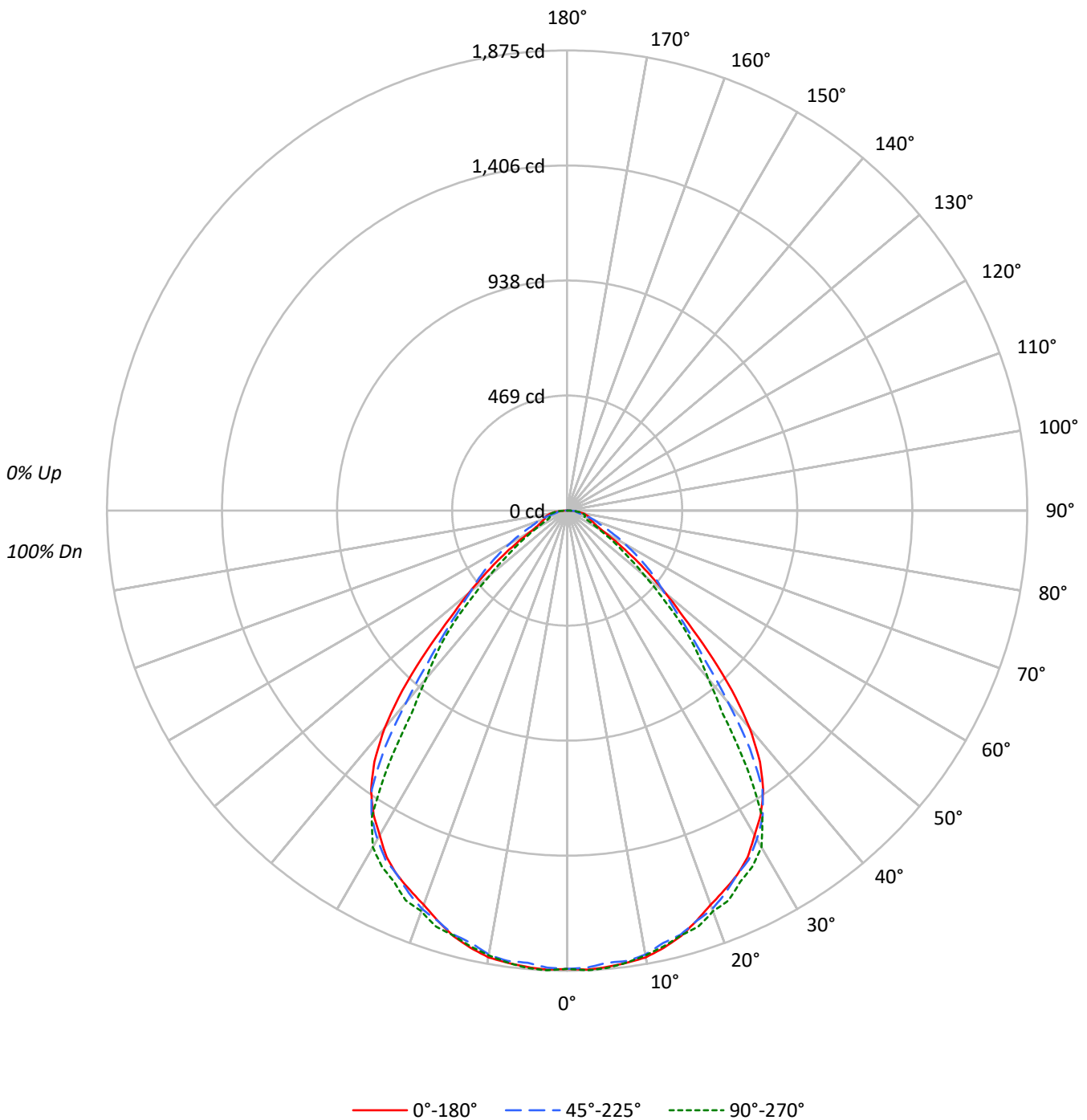
Input Watts (W): 34.038
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90					88				
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79					77				
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70					68				
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63					61				
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56					54				
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51					49				
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46					44				
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42					40				
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38					37				
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35					34				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5025	5025	5025
5°	5042	4995	5054
10°	5050	5020	5028
15°	4999	4981	4992
20°	4895	4948	4975
25°	4865	4862	4956
30°	4746	4804	4921
35°	4577	4558	4188
40°	4064	3587	3140
45°	3084	2683	2539
50°	2188	2147	1723
55°	1498	1833	1184
60°	926	1462	792
65°	763	1126	573
70°	759	980	589
75°	911	702	786
80°	1046	648	984
85°	994	1142	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	5.0
10°-20°	505.8	14.4
20°-30°	760.6	21.7
30°-40°	829.1	23.6
40°-50°	580.6	16.5
50°-60°	328.6	9.4
60°-70°	179.8	5.1
70°-80°	109.0	3.1
80°-90°	41.3	1.2
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°	1443.5	41.1
0°-40°	2272.7	64.7
0°-60°	3181.9	90.6
0°-90°	3512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1868	1868	1868	1868	1868	
5°	1867	1864	1849	1871	1871	178
15°	1794	1790	1788	1814	1792	505
25°	1638	1642	1638	1675	1669	752
35°	1393	1387	1388	1317	1275	858
45°	810	846	705	696	667	629
55°	319	382	391	388	252	292
65°	120	197	177	224	90	123
75°	88	126	68	133	76	91
85°	32	52	37	45	36	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1867.5	1867.5	1867.5	1867.5	1867.5
2.5°	1872.4	1870.0	1864.3	1875.6	1874.8
5°	1866.7	1863.5	1849.1	1870.8	1870.8
7.5°	1858.7	1850.7	1851.5	1863.5	1857.9
10°	1848.3	1834.6	1837.0	1840.2	1840.2
12.5°	1824.1	1811.3	1804.8	1815.3	1818.5
15°	1794.4	1789.6	1788.0	1813.7	1792.0
17.5°	1752.6	1763.0	1753.4	1774.3	1777.5
20°	1709.2	1729.3	1727.7	1742.1	1737.3
22.5°	1673.8	1686.7	1686.7	1704.3	1718.8
25°	1638.4	1641.6	1637.6	1675.4	1669.0
27.5°	1592.6	1590.2	1603.0	1622.3	1635.2
30°	1527.5	1528.3	1546.0	1571.7	1583.8
32.5°	1468.0	1460.8	1482.5	1493.7	1480.9
35°	1393.2	1386.8	1387.6	1316.8	1275.0
37.5°	1291.1	1296.7	1222.8	1093.4	1038.7
40°	1156.9	1168.1	1021.0	924.5	894.0
42.5°	994.5	997.7	836.9	805.5	785.4
45°	810.4	845.7	705.1	696.2	667.3
47.5°	642.3	708.3	590.9	596.5	527.4
50°	522.6	588.5	512.9	515.3	411.6
52.5°	413.2	477.5	452.6	445.4	323.2
55°	319.2	381.9	390.7	387.5	252.4
57.5°	234.7	302.3	328.0	340.1	194.6
60°	172.0	246.8	271.7	295.8	147.1
62.5°	136.7	213.8	222.7	258.1	114.2
65°	119.8	197.0	176.9	223.5	90.0
67.5°	106.9	187.3	143.9	197.8	78.8
70°	96.5	168.8	124.6	176.9	74.8
72.5°	96.5	147.9	98.1	156.8	75.6
75°	87.6	126.2	67.5	132.6	75.6
77.5°	78.0	107.7	50.6	107.7	70.7
80°	67.5	84.4	41.8	82.8	63.5
82.5°	49.8	63.5	36.2	61.9	51.5
85°	32.2	52.3	37.0	45.0	36.2
87.5°	15.3	26.5	23.3	22.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)