

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: P294127

Luminaire Tested: **24GR-LD5-48-A19/156-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A19/156-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4168.0 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

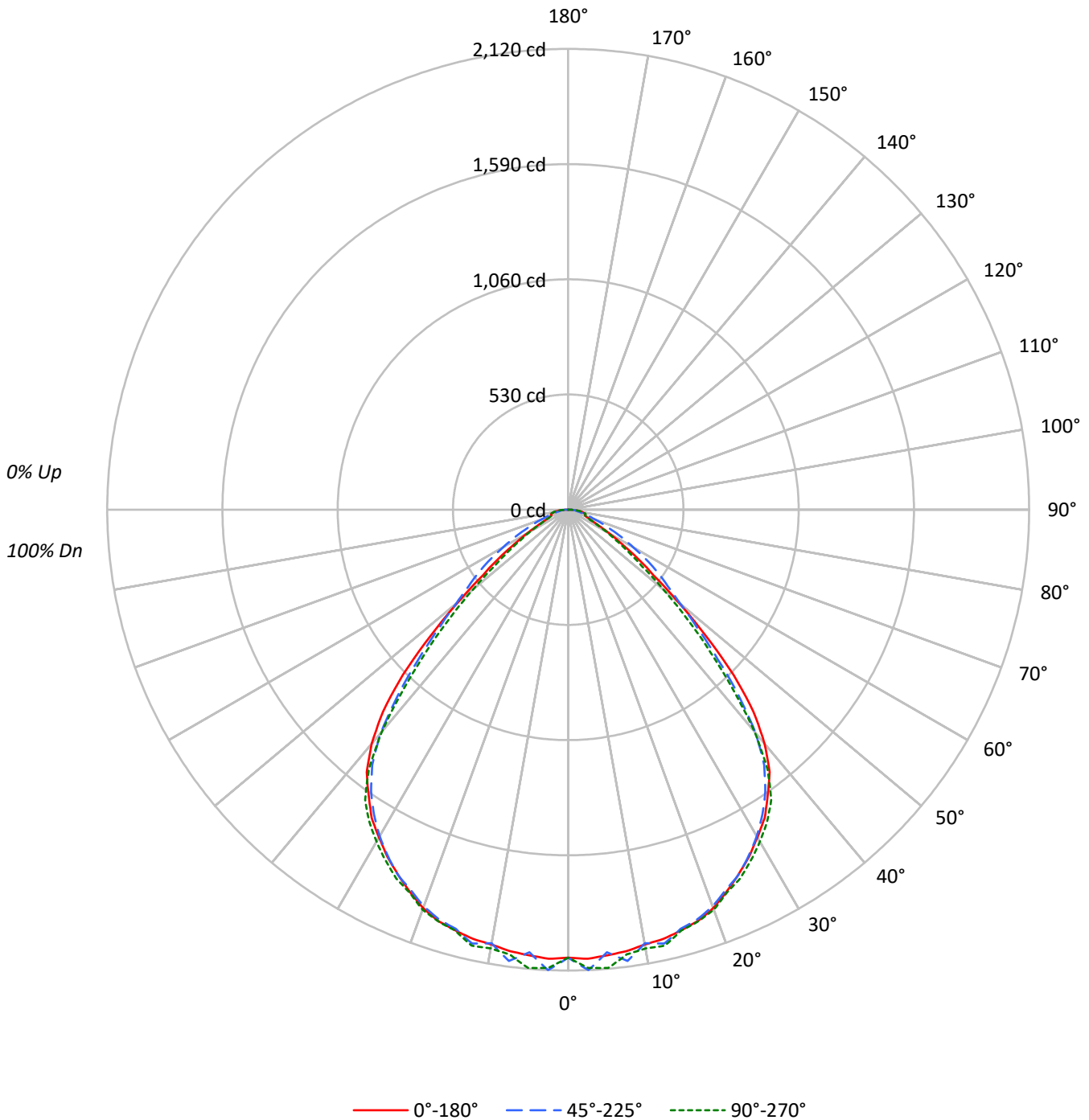
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	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	86	83	88	84	81	85	82	79					77				
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70					68				
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62					60				
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55					53				
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50					48				
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45					43				
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41					39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37					36				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34					33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2773	2773	2773
5°	2779	2761	2859
10°	2775	2766	2800
15°	2791	2781	2792
20°	2793	2781	2804
25°	2750	2752	2778
30°	2704	2696	2739
35°	2628	2596	2674
40°	2468	2357	2344
45°	2046	1851	1755
50°	1376	1404	1199
55°	908	1178	787
60°	582	929	538
65°	375	710	365
70°	332	508	332
75°	428	403	431
80°	524	347	550
85°	610	517	641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	4.7
10°-20°	566.6	13.6
20°-30°	853.0	20.5
30°-40°	988.7	23.7
40°-50°	772.3	18.5
50°-60°	412.4	9.9
60°-70°	212.1	5.1
70°-80°	120.0	2.9
80°-90°	45.6	1.1
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°	1617.0	38.8
0°-40°	2605.7	62.5
0°-60°	3790.4	90.9
0°-90°	4168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2061	2061	2061	2061	2061	
5°	2058	2115	2044	2100	2116	196
15°	2003	2016	1997	2009	2005	566
25°	1852	1846	1854	1851	1872	853
35°	1600	1592	1580	1612	1628	997
45°	1075	1076	973	964	922	810
55°	387	489	502	452	335	357
65°	118	246	223	245	114	129
75°	82	155	78	145	83	83
85°	40	52	34	52	42	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2061.0	2061.0	2061.0	2061.0	2061.0
2.5°	2067.7	2105.1	2119.9	2101.8	2109.8
5°	2057.6	2115.2	2044.2	2100.4	2116.5
7.5°	2048.2	2042.2	2093.8	2040.2	2063.0
10°	2030.8	2034.9	2024.8	2063.0	2049.6
12.5°	2022.8	2046.2	2044.2	2024.8	2054.3
15°	2003.4	2016.1	1996.7	2009.4	2004.7
17.5°	1984.0	1978.0	1975.9	1981.3	1986.0
20°	1950.5	1930.4	1942.5	1943.8	1958.5
22.5°	1902.3	1890.3	1892.9	1905.0	1906.3
25°	1852.1	1846.1	1853.5	1850.8	1871.5
27.5°	1799.9	1791.9	1796.6	1806.6	1819.3
30°	1740.3	1738.3	1735.0	1743.7	1763.1
32.5°	1681.4	1665.4	1662.7	1680.8	1702.8
35°	1599.8	1592.4	1580.4	1611.8	1627.9
37.5°	1522.1	1499.4	1480.0	1498.7	1505.4
40°	1405.0	1387.6	1342.1	1344.1	1334.7
42.5°	1261.1	1248.4	1161.3	1145.9	1119.8
45°	1075.0	1075.7	972.6	963.9	922.4
47.5°	858.8	896.9	807.2	797.2	735.6
50°	657.3	726.3	670.7	654.6	573.0
52.5°	493.3	594.4	577.0	542.2	429.7
55°	386.9	489.3	502.0	452.5	335.3
57.5°	291.2	403.0	423.7	382.9	259.0
60°	216.2	339.4	345.4	329.3	200.1
62.5°	160.6	288.5	280.5	282.5	148.6
65°	117.8	245.7	222.9	245.0	114.5
67.5°	96.4	212.9	173.4	212.2	93.0
70°	84.3	188.8	129.2	186.8	84.3
72.5°	81.7	173.4	102.4	166.0	82.3
75°	82.3	154.6	77.6	144.6	83.0
77.5°	75.6	127.2	58.9	123.2	79.0
80°	67.6	96.4	44.8	97.7	71.0
82.5°	57.6	70.3	36.1	72.3	59.6
85°	39.5	51.5	33.5	51.5	41.5
87.5°	18.7	30.8	20.8	29.5	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)