

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: P294120

Luminaire Tested: **24GR-LD5-42-A19/156-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294120
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-LD5-42-A19/156-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3772.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

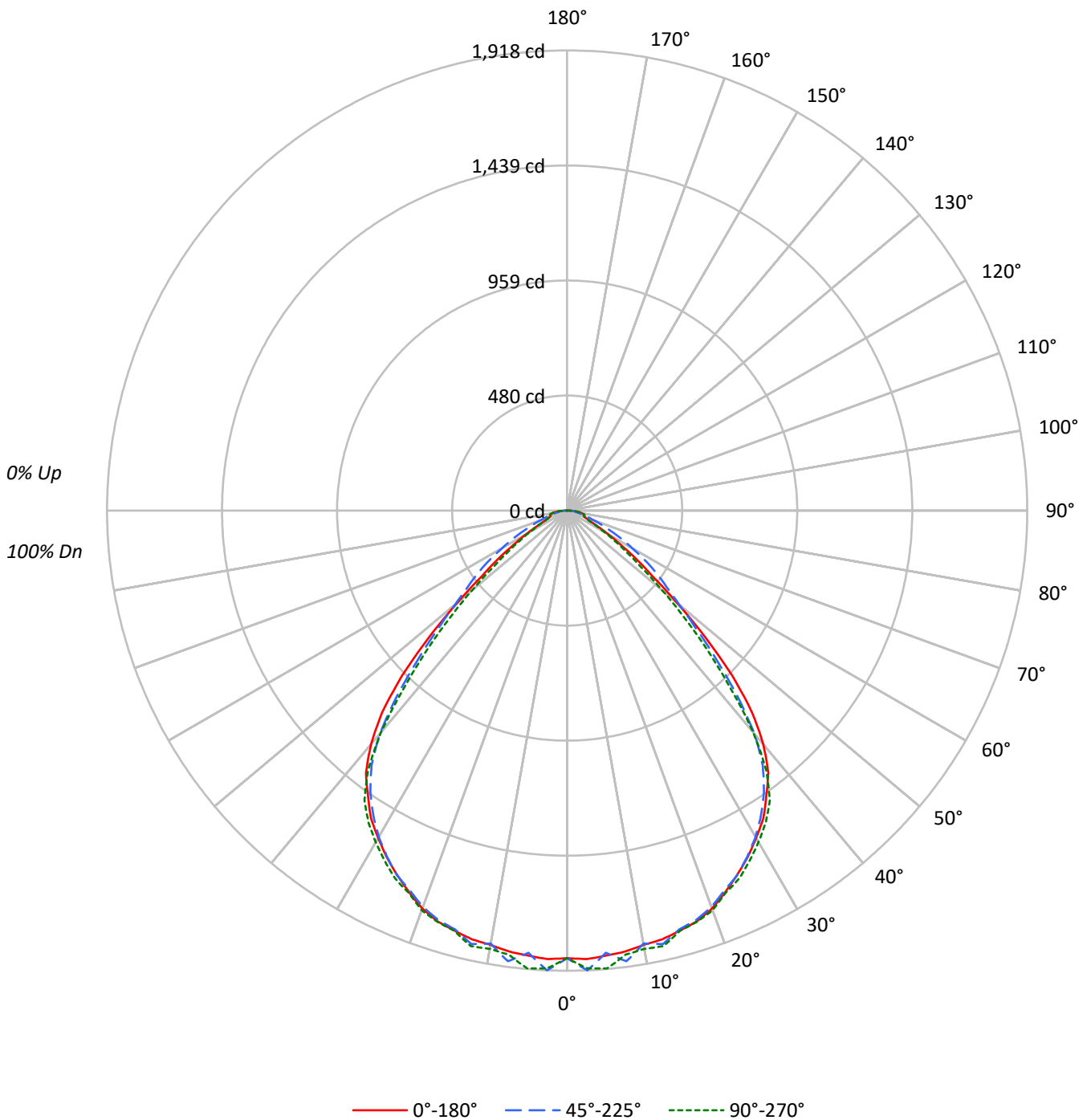
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53					53			
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48					48			
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43					43			
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39					39			
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36					36			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2509	2509	2509
5°	2515	2499	2587
10°	2511	2504	2534
15°	2526	2517	2527
20°	2527	2517	2538
25°	2488	2490	2514
30°	2447	2439	2479
35°	2378	2349	2420
40°	2233	2133	2122
45°	1851	1675	1588
50°	1245	1271	1085
55°	821	1066	712
60°	527	841	487
65°	339	642	330
70°	300	460	300
75°	387	365	390
80°	474	315	497
85°	551	468	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	4.7
10°-20°	512.8	13.6
20°-30°	772.0	20.5
30°-40°	894.8	23.7
40°-50°	699.0	18.5
50°-60°	373.2	9.9
60°-70°	191.9	5.1
70°-80°	108.6	2.9
80°-90°	41.2	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°	1463.3	38.8
0°-40°	2358.1	62.5
0°-60°	3430.3	90.9
0°-90°	3772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1865	1865	1865	1865	1865	
5°	1862	1914	1850	1901	1915	177
15°	1813	1825	1807	1818	1814	512
25°	1676	1671	1677	1675	1694	772
35°	1448	1441	1430	1459	1473	903
45°	973	974	880	872	835	733
55°	350	443	454	410	304	323
65°	107	222	202	222	104	117
75°	74	140	70	131	75	75
85°	36	47	30	47	38	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1865.1	1865.1	1865.1	1865.1	1865.1
2.5°	1871.2	1905.1	1918.5	1902.1	1909.4
5°	1862.1	1914.2	1850.0	1900.9	1915.4
7.5°	1853.6	1848.2	1894.8	1846.4	1867.0
10°	1837.9	1841.5	1832.4	1867.0	1854.8
12.5°	1830.6	1851.8	1850.0	1832.4	1859.1
15°	1813.1	1824.6	1807.0	1818.5	1814.3
17.5°	1795.5	1790.0	1788.2	1793.1	1797.3
20°	1765.2	1747.0	1757.9	1759.1	1772.5
22.5°	1721.6	1710.7	1713.1	1724.0	1725.2
25°	1676.1	1670.7	1677.4	1674.9	1693.7
27.5°	1628.9	1621.6	1625.9	1635.0	1646.5
30°	1575.0	1573.2	1570.1	1578.0	1595.6
32.5°	1521.7	1507.1	1504.7	1521.1	1541.1
35°	1447.8	1441.1	1430.2	1458.7	1473.2
37.5°	1377.5	1356.9	1339.3	1356.3	1362.4
40°	1271.5	1255.7	1214.6	1216.4	1207.9
42.5°	1141.3	1129.7	1051.0	1037.1	1013.4
45°	972.9	973.5	880.2	872.3	834.7
47.5°	777.2	811.7	730.6	721.5	665.7
50°	594.9	657.3	607.0	592.4	518.5
52.5°	446.4	537.9	522.2	490.7	388.9
55°	350.1	442.8	454.3	409.5	303.5
57.5°	263.5	364.7	383.4	346.5	234.4
60°	195.7	307.1	312.6	298.0	181.1
62.5°	145.4	261.1	253.8	255.6	134.5
65°	106.6	222.3	201.7	221.7	103.6
67.5°	87.2	192.6	156.9	192.0	84.2
70°	76.3	170.8	116.9	169.0	76.3
72.5°	73.9	156.9	92.7	150.2	74.5
75°	74.5	139.9	70.3	130.8	75.1
77.5°	68.5	115.1	53.3	111.5	71.5
80°	61.2	87.2	40.6	88.4	64.2
82.5°	52.1	63.6	32.7	65.4	53.9
85°	35.7	46.6	30.3	46.6	37.6
87.5°	17.0	27.9	18.8	26.7	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)