

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: P294143

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294143
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-LD5-64-A19/156-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5075.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

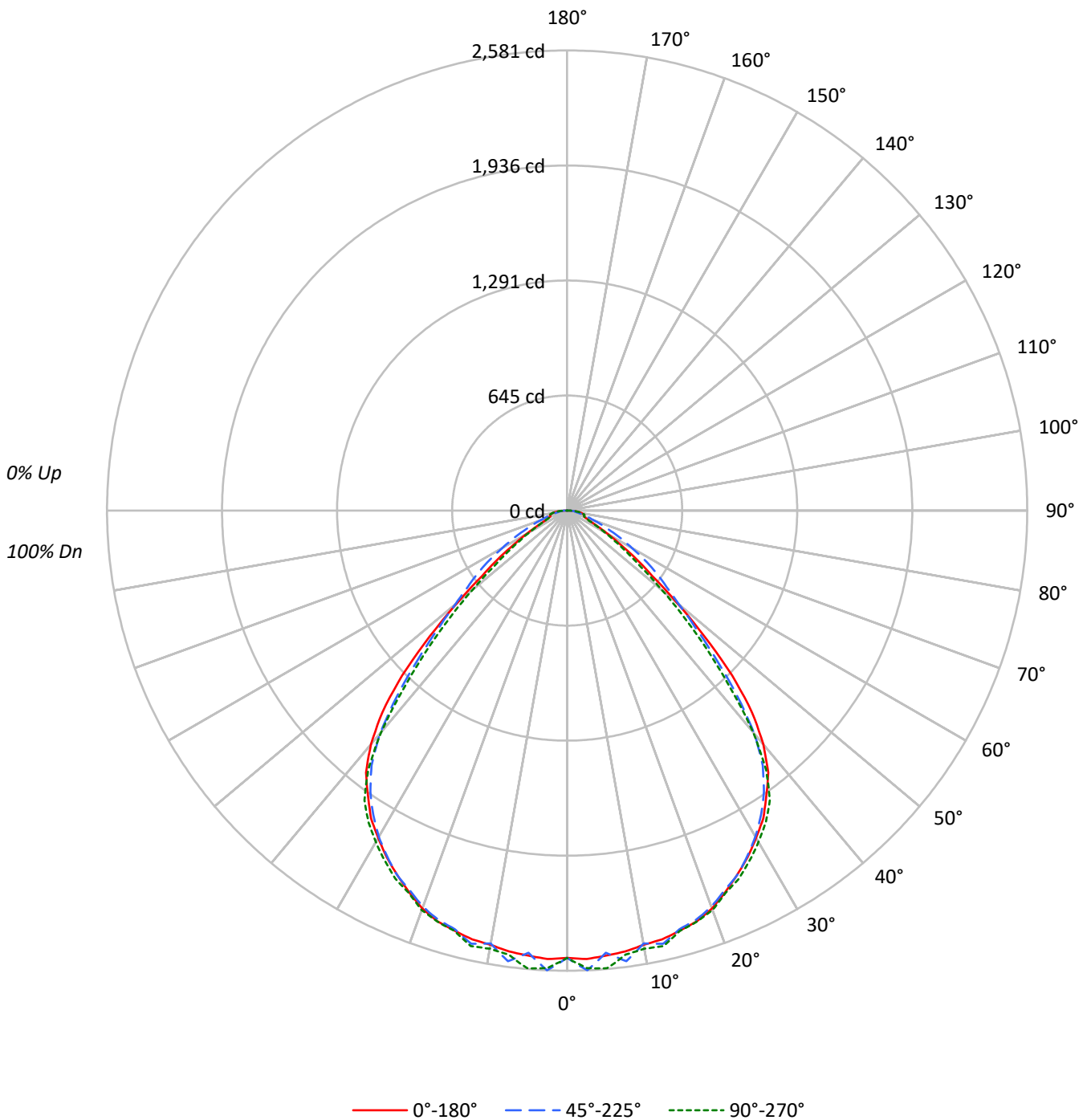
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3376	3376	3376
5°	3384	3362	3481
10°	3378	3368	3410
15°	3398	3387	3400
20°	3401	3387	3415
25°	3348	3350	3383
30°	3292	3282	3335
35°	3200	3161	3256
40°	3005	2870	2854
45°	2491	2253	2137
50°	1675	1709	1460
55°	1105	1434	958
60°	709	1132	656
65°	457	864	444
70°	404	619	404
75°	521	491	526
80°	638	423	669
85°	743	630	780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	4.7
10°-20°	689.9	13.6
20°-30°	1038.6	20.5
30°-40°	1203.9	23.7
40°-50°	940.4	18.5
50°-60°	502.1	9.9
60°-70°	258.2	5.1
70°-80°	146.1	2.9
80°-90°	55.5	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°	1968.8	38.8
0°-40°	3172.7	62.5
0°-60°	4615.2	90.9
0°-90°	5075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2509	2509	2509	2509	2509	
5°	2505	2576	2489	2558	2577	238
15°	2439	2455	2431	2447	2441	689
25°	2255	2248	2257	2254	2279	1039
35°	1948	1939	1924	1963	1982	1214
45°	1309	1310	1184	1174	1123	986
55°	471	596	611	551	408	435
65°	143	299	271	298	139	158
75°	100	188	94	176	101	102
85°	48	63	41	63	50	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2509.4	2509.4	2509.4	2509.4	2509.4
2.5°	2517.6	2563.2	2581.2	2559.2	2568.9
5°	2505.4	2575.5	2489.1	2557.5	2577.1
7.5°	2494.0	2486.6	2549.4	2484.2	2511.9
10°	2472.8	2477.7	2465.4	2511.9	2495.6
12.5°	2463.0	2491.5	2489.1	2465.4	2501.3
15°	2439.4	2454.8	2431.2	2446.7	2441.0
17.5°	2415.7	2408.4	2405.9	2412.5	2418.2
20°	2375.0	2350.5	2365.2	2366.8	2384.7
22.5°	2316.3	2301.6	2304.9	2319.5	2321.2
25°	2255.2	2247.8	2256.8	2253.5	2278.8
27.5°	2191.6	2181.8	2187.5	2199.7	2215.2
30°	2119.0	2116.6	2112.5	2123.1	2146.8
32.5°	2047.3	2027.8	2024.5	2046.5	2073.4
35°	1947.9	1938.9	1924.3	1962.6	1982.1
37.5°	1853.4	1825.6	1802.0	1824.8	1833.0
40°	1710.7	1689.5	1634.1	1636.6	1625.1
42.5°	1535.5	1520.0	1414.1	1395.3	1363.5
45°	1308.9	1309.7	1184.2	1173.6	1123.1
47.5°	1045.7	1092.1	982.9	970.7	895.7
50°	800.3	884.3	816.6	797.1	697.7
52.5°	600.7	723.7	702.5	660.2	523.2
55°	471.1	595.8	611.3	551.0	408.3
57.5°	354.5	490.6	515.9	466.2	315.4
60°	263.3	413.2	420.5	401.0	243.7
62.5°	195.6	351.3	341.5	343.9	180.9
65°	143.4	299.1	271.4	298.3	139.4
67.5°	117.4	259.2	211.1	258.4	113.3
70°	102.7	229.8	157.3	227.4	102.7
72.5°	99.4	211.1	124.7	202.1	100.2
75°	100.2	188.3	94.5	176.0	101.1
77.5°	92.1	154.9	71.7	150.0	96.2
80°	82.3	117.4	54.6	119.0	86.4
82.5°	70.1	85.6	44.0	88.0	72.5
85°	48.1	62.8	40.8	62.8	50.5
87.5°	22.8	37.5	25.3	35.9	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)