

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: P219119

Luminaire Tested: **24GR-LD5-56-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4971.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

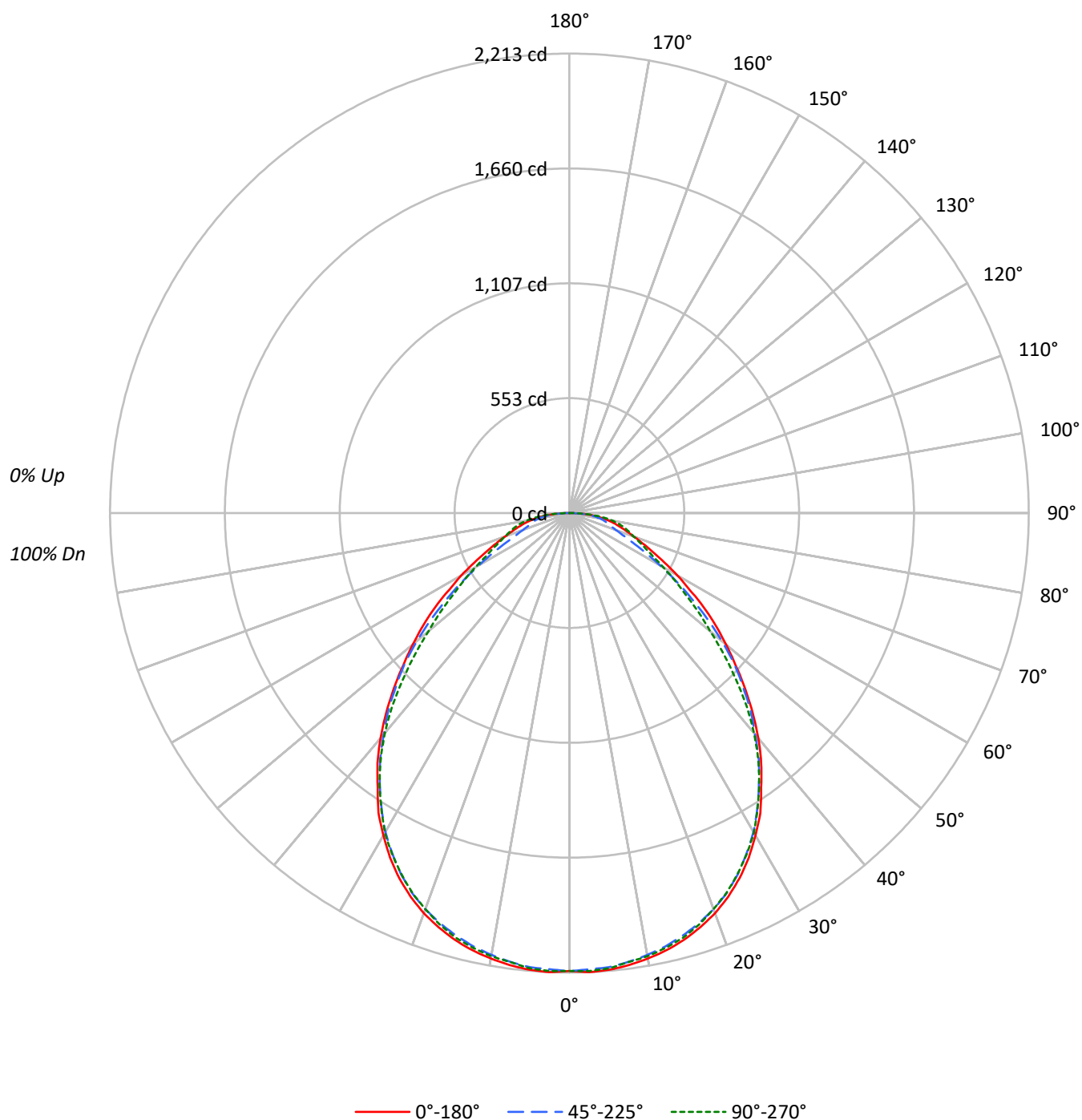
Input Watts (W): 45.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63		
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39		
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3378	3378	3378
5°	3395	3376	3384
10°	3388	3361	3371
15°	3376	3341	3356
20°	3343	3310	3308
25°	3278	3243	3240
30°	3170	3137	3144
35°	3011	2976	2981
40°	2831	2782	2765
45°	2595	2560	2458
50°	2346	2282	2110
55°	2106	1917	1819
60°	1844	1543	1600
65°	1608	1213	1472
70°	1472	1059	1472
75°	1472	1127	1623
80°	1598	1327	1850
85°	1754	1497	1984



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	4.2
10°-20°	596.0	12.0
20°-30°	883.8	17.8
30°-40°	997.0	20.1
40°-50°	903.0	18.2
50°-60°	651.5	13.1
60°-70°	389.0	7.8
70°-80°	240.4	4.8
80°-90°	101.3	2.0
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°	1688.7	34.0
0°-40°	2685.8	54.0
0°-60°	4240.3	85.3
0°-90°	4971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2206	2206	2206	2206	2206	
5°	2208	2205	2196	2193	2201	210
15°	2129	2116	2107	2108	2116	600
25°	1940	1929	1919	1912	1918	891
35°	1610	1608	1592	1593	1594	1008
45°	1198	1190	1182	1153	1135	923
55°	789	764	718	683	681	704
65°	444	391	335	380	406	446
75°	249	216	190	237	274	266
85°	100	88	85	111	113	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2205.6	2205.6	2205.6	2205.6	2205.6
2.5°	2213.2	2207.1	2199.4	2204.0	2207.9
5°	2207.9	2204.8	2195.6	2193.3	2200.9
7.5°	2196.4	2188.7	2180.2	2184.1	2181.0
10°	2178.7	2171.8	2161.0	2161.8	2167.2
12.5°	2157.1	2148.7	2137.2	2140.3	2144.9
15°	2128.8	2115.7	2107.3	2108.0	2116.5
17.5°	2092.6	2082.7	2071.9	2074.2	2078.1
20°	2051.2	2045.9	2030.5	2025.9	2029.7
22.5°	1999.0	1989.0	1980.6	1978.3	1979.0
25°	1939.8	1929.1	1919.1	1912.2	1917.5
27.5°	1870.8	1861.6	1848.5	1846.2	1850.8
30°	1792.4	1785.5	1774.0	1770.9	1777.8
32.5°	1712.5	1701.0	1684.9	1684.9	1686.5
35°	1610.4	1608.1	1591.9	1592.7	1594.3
37.5°	1518.2	1507.5	1498.3	1489.1	1493.6
40°	1416.1	1403.8	1391.6	1385.4	1383.1
42.5°	1306.3	1297.1	1291.7	1269.4	1264.0
45°	1198.0	1190.3	1181.9	1152.7	1135.0
47.5°	1087.4	1085.9	1079.0	1027.5	1009.9
50°	984.5	982.2	957.6	903.1	885.5
52.5°	887.0	871.6	839.4	785.6	782.5
55°	788.7	764.1	718.0	682.7	681.2
57.5°	685.0	655.8	609.0	589.8	599.8
60°	602.1	557.5	503.8	506.1	522.2
62.5°	516.1	466.1	413.1	436.2	455.4
65°	443.8	390.9	334.8	380.1	406.3
67.5°	380.9	331.8	278.0	338.7	364.0
70°	328.7	288.8	236.5	300.3	328.7
72.5°	287.2	250.3	209.7	269.5	302.5
75°	248.8	215.8	190.5	237.3	274.2
77.5°	215.8	183.5	172.0	209.7	245.7
80°	181.2	152.0	150.5	182.8	209.7
82.5°	141.3	121.3	121.3	152.8	169.0
85°	99.8	87.5	85.2	111.4	112.9
87.5°	51.4	49.1	44.5	58.4	58.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)