

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: P219055

Luminaire Tested: **24GR-LD5-34-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-F1-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3025.2 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

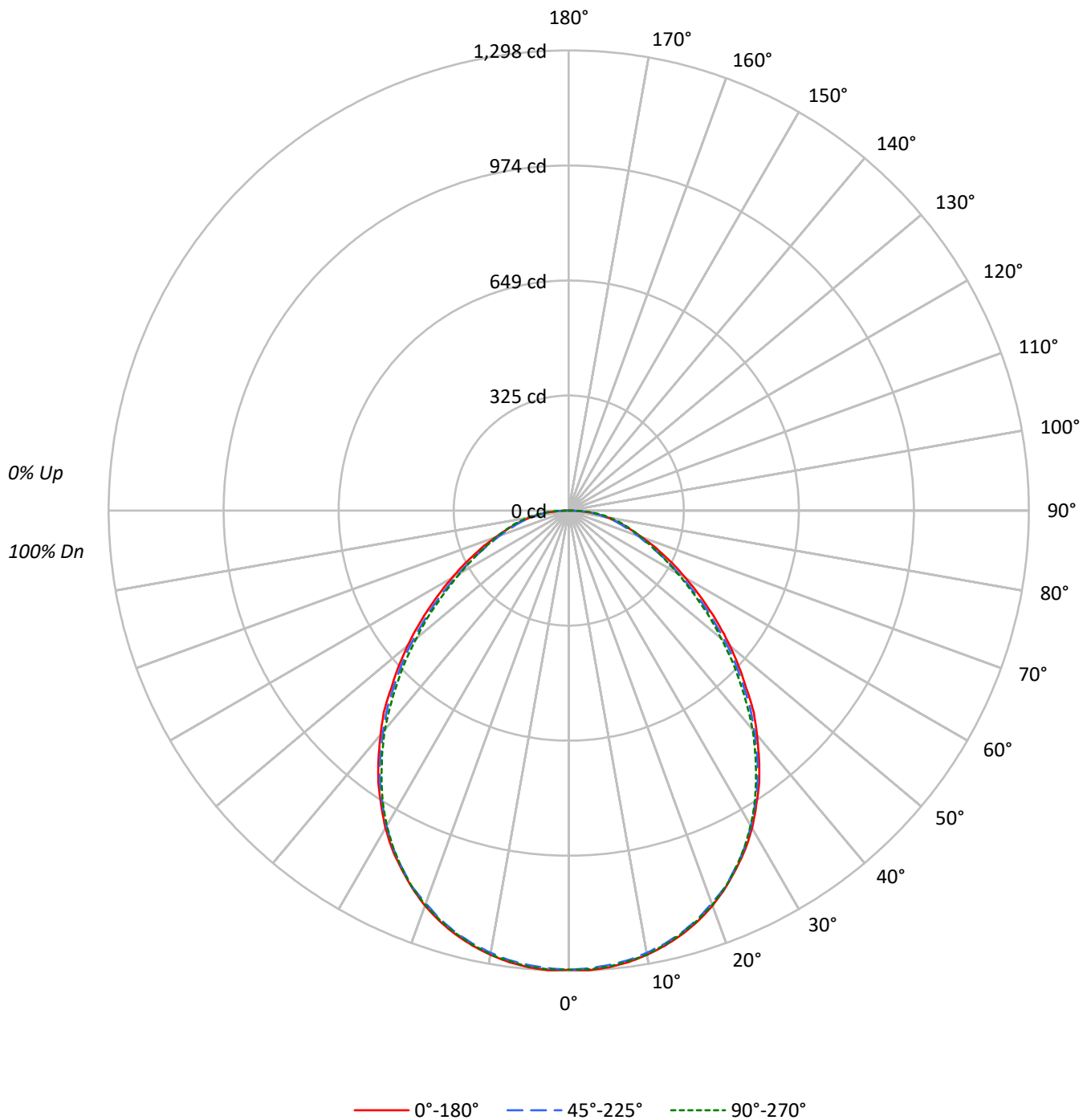
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37		
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33		
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30		
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1984	1984	1984
5°	1989	1979	1985
10°	1979	1970	1977
15°	1962	1953	1958
20°	1933	1922	1930
25°	1886	1880	1882
30°	1829	1818	1815
35°	1751	1737	1721
40°	1650	1629	1613
45°	1534	1506	1478
50°	1414	1377	1336
55°	1285	1241	1202
60°	1164	1103	1083
65°	1065	994	1001
70°	980	923	967
75°	952	902	985
80°	954	930	1049
85°	1049	991	1156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	4.0
10°-20°	347.3	11.5
20°-30°	511.8	16.9
30°-40°	578.8	19.1
40°-50°	536.8	17.7
50°-60°	417.1	13.8
60°-70°	279.7	9.2
70°-80°	167.6	5.5
80°-90°	63.8	2.1
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°	981.5	32.4
0°-40°	1560.2	51.6
0°-60°	2514.1	83.1
0°-90°	3025.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3025.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1293	1290	1287	1286	1291	123
15°	1237	1232	1232	1230	1235	349
25°	1116	1115	1112	1110	1113	514
35°	936	933	929	924	921	584
45°	708	705	695	685	682	547
55°	481	476	465	453	450	432
65°	294	284	274	273	276	293
75°	161	155	152	160	166	170
85°	60	56	56	66	66	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.2	1295.2	1295.2	1295.2	1295.2
2.5°	1298.0	1293.9	1292.0	1291.0	1295.2
5°	1293.4	1289.7	1287.3	1286.4	1291.0
7.5°	1285.0	1280.8	1279.4	1277.5	1282.2
10°	1272.4	1268.7	1266.8	1265.4	1271.4
12.5°	1256.5	1253.3	1251.4	1250.4	1254.2
15°	1237.4	1232.3	1231.8	1229.5	1234.6
17.5°	1213.6	1209.0	1208.0	1207.1	1210.4
20°	1186.1	1181.5	1179.1	1178.6	1183.8
22.5°	1153.0	1149.7	1150.7	1147.8	1151.5
25°	1116.1	1114.7	1112.4	1110.5	1113.4
27.5°	1077.9	1073.2	1073.2	1069.5	1072.2
30°	1034.1	1030.8	1028.0	1024.3	1026.2
32.5°	984.6	983.2	979.0	975.2	976.2
35°	936.5	932.8	929.1	923.5	920.7
37.5°	881.5	877.8	873.2	865.2	864.3
40°	825.5	822.3	814.8	806.4	806.9
42.5°	772.4	767.3	757.9	746.7	744.4
45°	708.0	705.2	695.4	684.7	682.3
47.5°	650.7	648.8	636.7	625.5	622.6
50°	593.3	588.2	577.9	566.7	560.6
52.5°	536.8	530.3	517.3	509.8	507.0
55°	481.3	475.8	464.6	452.9	450.1
57.5°	429.6	423.5	410.0	401.6	400.2
60°	380.1	374.5	360.1	354.0	353.5
62.5°	336.3	327.0	317.2	313.0	313.5
65°	293.9	284.5	274.3	273.3	276.1
67.5°	256.5	246.7	236.5	240.2	243.0
70°	218.8	211.7	206.1	212.2	215.9
72.5°	186.5	182.4	177.2	185.7	190.3
75°	160.9	155.3	152.5	160.0	166.5
77.5°	133.4	128.7	128.7	136.7	143.6
80°	108.2	104.9	105.4	114.7	118.9
82.5°	84.9	80.2	80.7	92.4	95.1
85°	59.7	56.0	56.4	66.2	65.8
87.5°	31.2	29.8	31.2	38.3	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)