

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: P219039

Luminaire Tested: **24GR-LD5-30-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219039
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-LD5-30-F1-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2612.9 lumens
Efficiency: N/A
Efficacy: 111.5 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

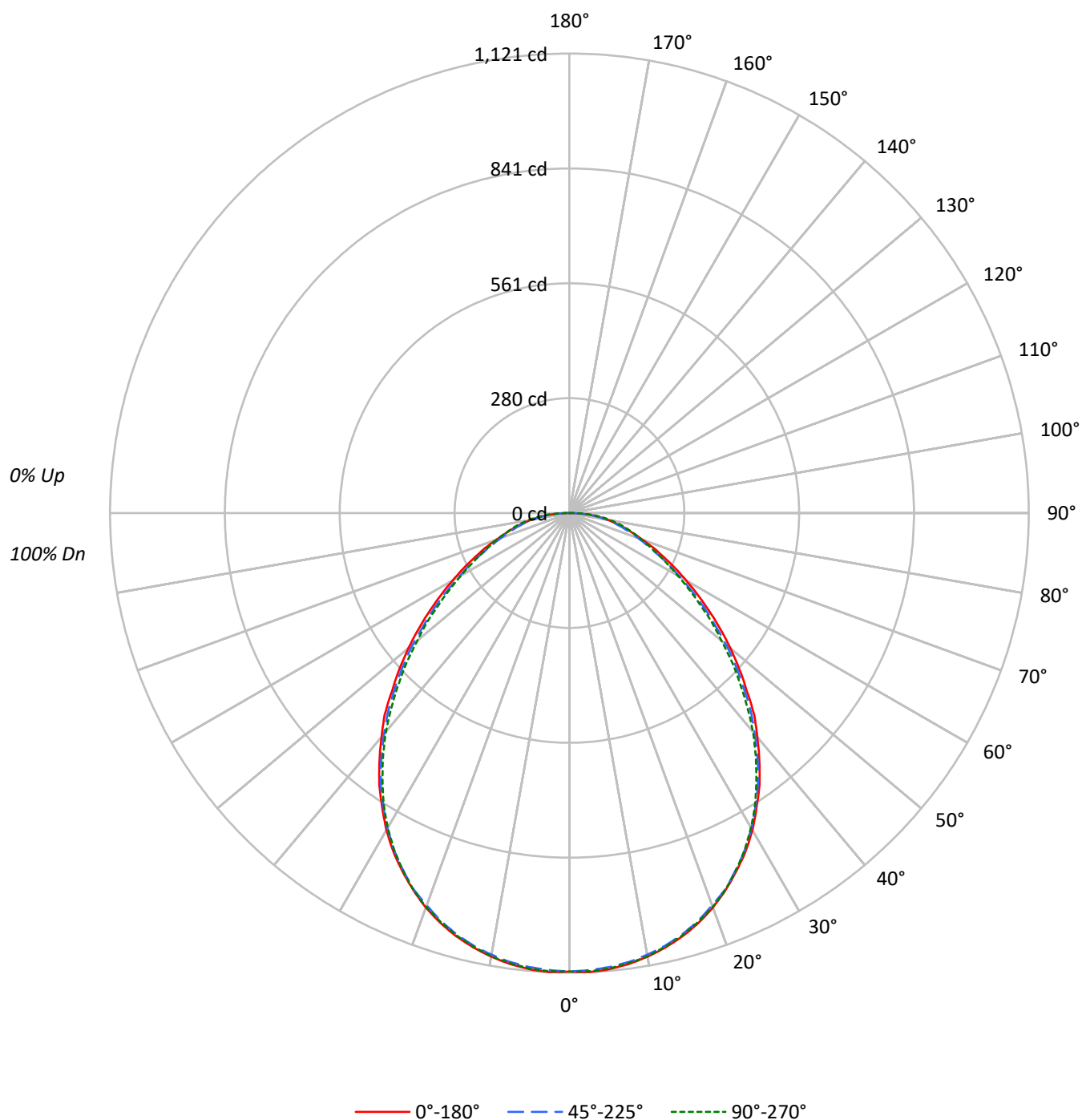
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1713	1713	1713
5°	1718	1710	1714
10°	1709	1702	1708
15°	1695	1687	1691
20°	1670	1660	1667
25°	1629	1624	1625
30°	1580	1570	1567
35°	1512	1500	1487
40°	1426	1407	1393
45°	1325	1301	1277
50°	1221	1189	1154
55°	1110	1072	1038
60°	1006	953	936
65°	920	859	864
70°	846	798	835
75°	823	780	851
80°	825	803	907
85°	907	856	998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	4.0
10°-20°	300.0	11.5
20°-30°	442.0	16.9
30°-40°	499.9	19.1
40°-50°	463.7	17.7
50°-60°	360.2	13.8
60°-70°	241.6	9.2
70°-80°	144.8	5.5
80°-90°	55.1	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°	847.7	32.4
0°-40°	1347.6	51.6
0°-60°	2171.5	83.1
0°-90°	2612.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1117	1114	1112	1111	1115	106
15°	1069	1064	1064	1062	1066	301
25°	964	963	961	959	962	444
35°	809	806	802	798	795	504
45°	612	609	601	591	589	473
55°	416	411	401	391	389	373
65°	254	246	237	236	238	253
75°	139	134	132	138	144	147
85°	52	48	49	57	57	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.7	1118.7	1118.7	1118.7	1118.7
2.5°	1121.1	1117.5	1115.9	1115.1	1118.7
5°	1117.2	1113.9	1111.9	1111.0	1115.1
7.5°	1109.8	1106.3	1105.0	1103.4	1107.5
10°	1099.0	1095.7	1094.1	1092.9	1098.2
12.5°	1085.3	1082.5	1080.9	1080.0	1083.2
15°	1068.8	1064.4	1063.9	1061.9	1066.3
17.5°	1048.2	1044.2	1043.4	1042.6	1045.4
20°	1024.4	1020.4	1018.4	1018.0	1022.5
22.5°	995.9	993.1	993.8	991.4	994.7
25°	964.1	962.8	960.8	959.2	961.6
27.5°	931.0	927.0	927.0	923.8	926.2
30°	893.1	890.3	887.9	884.7	886.3
32.5°	850.4	849.2	845.6	842.4	843.2
35°	808.9	805.7	802.5	797.6	795.3
37.5°	761.4	758.2	754.1	747.3	746.5
40°	713.1	710.3	703.8	696.6	696.9
42.5°	667.2	662.7	654.7	645.0	642.9
45°	611.6	609.1	600.7	591.4	589.4
47.5°	562.0	560.4	549.9	540.3	537.8
50°	512.5	508.0	499.1	489.4	484.2
52.5°	463.7	458.1	446.8	440.3	437.9
55°	415.7	410.9	401.3	391.2	388.8
57.5°	371.0	365.8	354.1	346.9	345.6
60°	328.4	323.5	311.0	305.7	305.4
62.5°	290.4	282.4	274.0	270.3	270.7
65°	253.8	245.7	236.9	236.0	238.5
67.5°	221.6	213.1	204.3	207.5	209.9
70°	189.0	182.9	178.1	183.3	186.5
72.5°	161.2	157.5	153.1	160.3	164.4
75°	139.0	134.1	131.8	138.2	143.8
77.5°	115.2	111.2	111.2	118.1	124.1
80°	93.5	90.6	91.0	99.1	102.8
82.5°	73.4	69.3	69.7	79.7	82.2
85°	51.6	48.4	48.7	57.2	56.8
87.5°	27.0	25.8	27.0	33.1	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)