

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: P219114

Luminaire Tested: **24GR-LD5-30-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219114
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-LD5-30-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: 2719.9 lumens
Efficiency: N/A
Efficacy: 116.1 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

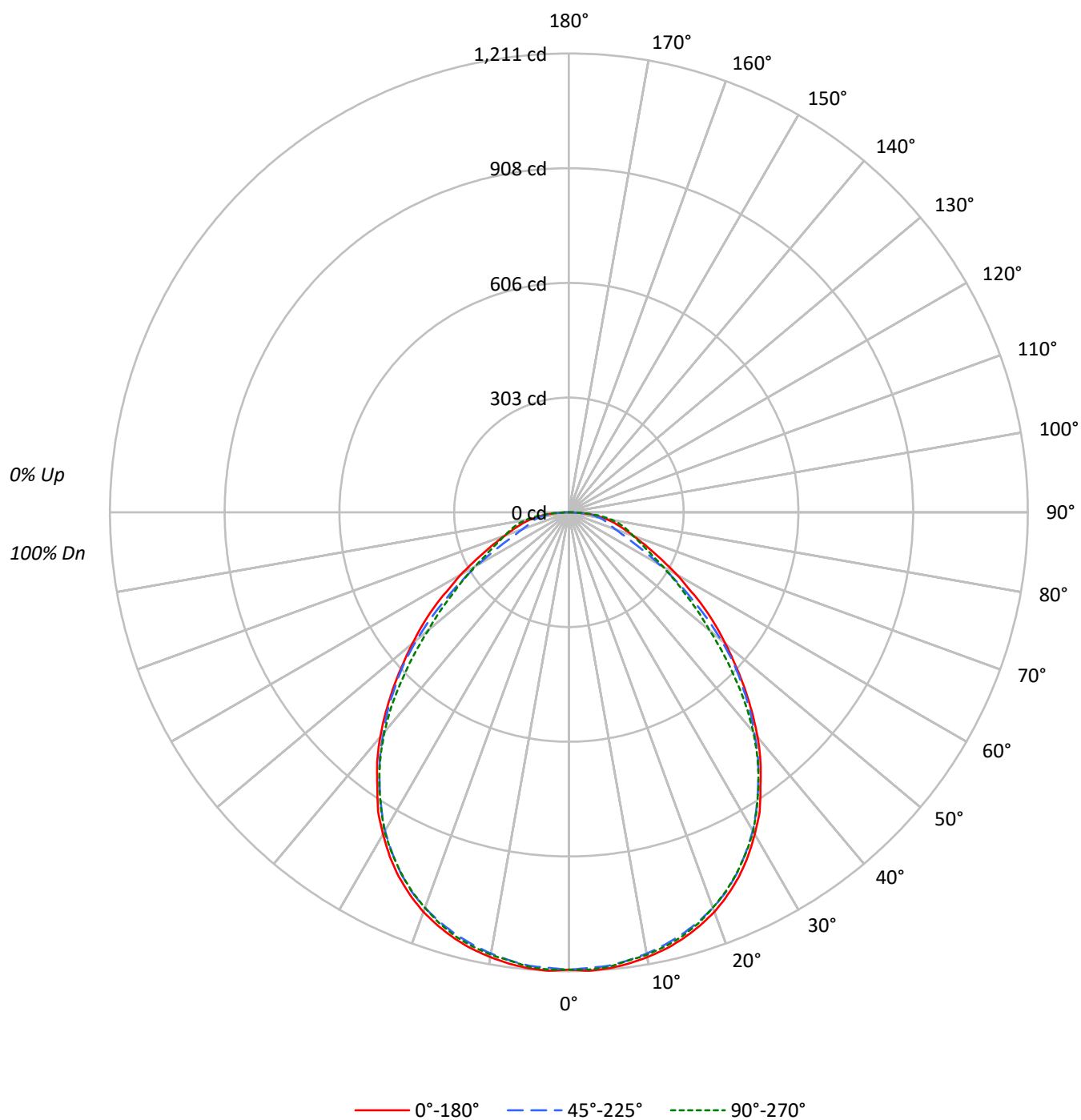
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1848	1848	1848
5°	1857	1847	1852
10°	1854	1839	1844
15°	1847	1828	1836
20°	1829	1811	1810
25°	1794	1775	1773
30°	1734	1717	1720
35°	1648	1629	1631
40°	1549	1522	1513
45°	1420	1401	1345
50°	1284	1249	1154
55°	1152	1049	995
60°	1009	844	875
65°	880	664	806
70°	805	579	805
75°	805	617	888
80°	875	727	1012
85°	960	819	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	4.2
10°-20°	326.1	12.0
20°-30°	483.6	17.8
30°-40°	545.6	20.1
40°-50°	494.1	18.2
50°-60°	356.5	13.1
60°-70°	212.8	7.8
70°-80°	131.6	4.8
80°-90°	55.4	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°	924.0	34.0
0°-40°	1469.6	54.0
0°-60°	2320.1	85.3
0°-90°	2719.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2719.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1208	1206	1201	1200	1204	115
15°	1165	1158	1153	1153	1158	328
25°	1061	1056	1050	1046	1049	488
35°	881	880	871	872	872	551
45°	656	651	647	631	621	505
55°	432	418	393	374	373	385
65°	243	214	183	208	222	244
75°	136	118	104	130	150	145
85°	55	48	47	61	62	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.8	1206.8	1206.8	1206.8	1206.8
2.5°	1211.1	1207.7	1203.5	1206.0	1208.0
5°	1208.0	1206.4	1201.3	1200.1	1204.3
7.5°	1201.8	1197.6	1193.0	1195.1	1193.3
10°	1192.1	1188.3	1182.4	1182.8	1185.8
12.5°	1180.4	1175.7	1169.4	1171.1	1173.6
15°	1164.8	1157.6	1153.0	1153.4	1158.1
17.5°	1145.0	1139.6	1133.7	1134.9	1137.1
20°	1122.4	1119.4	1111.0	1108.5	1110.6
22.5°	1093.7	1088.3	1083.7	1082.4	1082.8
25°	1061.4	1055.6	1050.1	1046.3	1049.2
27.5°	1023.6	1018.6	1011.4	1010.2	1012.6
30°	980.7	977.0	970.7	969.0	972.7
32.5°	937.1	930.8	921.9	921.9	922.8
35°	881.2	879.9	871.1	871.5	872.3
37.5°	830.8	824.8	819.8	814.8	817.3
40°	774.9	768.2	761.4	758.0	756.8
42.5°	714.7	709.8	706.7	694.6	691.6
45°	655.5	651.3	646.7	630.7	621.1
47.5°	595.0	594.2	590.4	562.3	552.6
50°	538.7	537.4	524.0	494.2	484.5
52.5°	485.3	477.0	459.2	429.8	428.2
55°	431.5	418.1	392.8	373.6	372.7
57.5°	374.8	358.9	333.2	322.7	328.2
60°	329.5	305.0	275.6	276.9	285.8
62.5°	282.3	255.1	226.1	238.6	249.1
65°	242.9	213.9	183.2	208.0	222.3
67.5°	208.4	181.5	152.1	185.3	199.2
70°	179.8	158.0	129.4	164.3	179.8
72.5°	157.1	137.0	114.7	147.5	165.6
75°	136.1	118.1	104.2	129.9	150.0
77.5°	118.1	100.4	94.1	114.7	134.5
80°	99.2	83.2	82.4	100.0	114.7
82.5°	77.3	66.4	66.4	83.6	92.4
85°	54.6	47.9	46.6	60.9	61.7
87.5°	28.1	26.9	24.3	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)