

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: P219054

Luminaire Tested: **24GR-LD5-30-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219054
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-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2688.4 lumens
Efficiency: N/A
Efficacy: 114.7 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

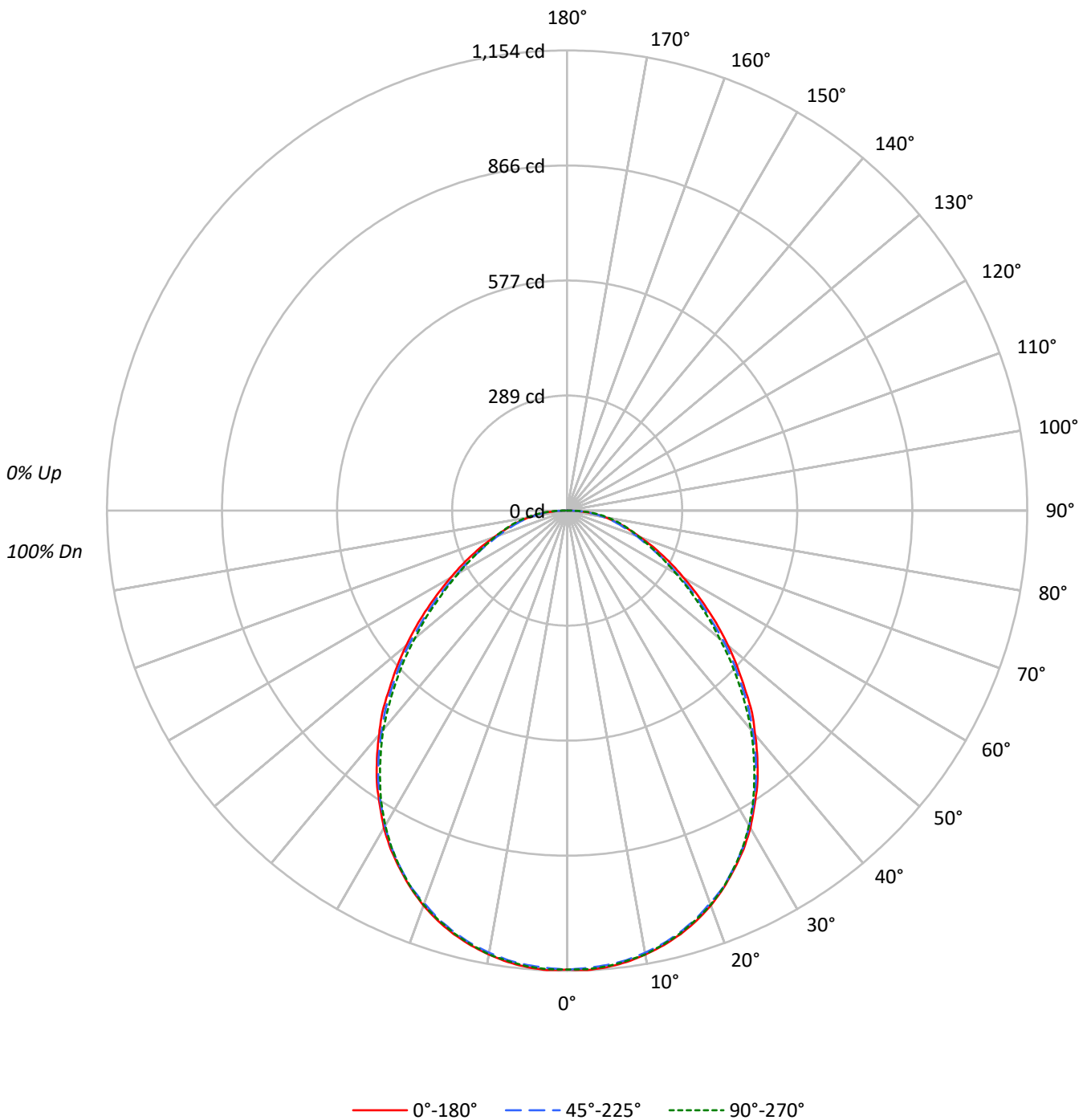
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RW	70	50	30	10	70	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
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°	1763	1763	1763
5°	1767	1759	1764
10°	1759	1751	1757
15°	1744	1736	1740
20°	1718	1708	1715
25°	1676	1671	1672
30°	1625	1616	1613
35°	1556	1544	1530
40°	1467	1448	1434
45°	1363	1339	1313
50°	1256	1224	1187
55°	1142	1103	1068
60°	1035	980	962
65°	946	883	889
70°	871	820	860
75°	846	802	876
80°	848	826	932
85°	933	880	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	4.0
10°-20°	308.7	11.5
20°-30°	454.8	16.9
30°-40°	514.3	19.1
40°-50°	477.1	17.7
50°-60°	370.6	13.8
60°-70°	248.5	9.2
70°-80°	148.9	5.5
80°-90°	56.7	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°	872.2	32.4
0°-40°	1386.6	51.6
0°-60°	2234.3	83.1
0°-90°	2688.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2688.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1149	1146	1144	1143	1147	109
15°	1100	1095	1095	1093	1097	310
25°	992	991	989	987	989	457
35°	832	829	826	821	818	519
45°	629	627	618	608	606	487
55°	428	423	413	402	400	384
65°	261	253	244	243	245	261
75°	143	138	136	142	148	151
85°	53	50	50	59	58	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.1	1151.1	1151.1	1151.1	1151.1
2.5°	1153.5	1149.8	1148.2	1147.3	1151.1
5°	1149.4	1146.1	1144.1	1143.2	1147.3
7.5°	1142.0	1138.2	1137.0	1135.3	1139.5
10°	1130.7	1127.5	1125.8	1124.5	1130.0
12.5°	1116.7	1113.8	1112.2	1111.3	1114.6
15°	1099.7	1095.1	1094.7	1092.6	1097.2
17.5°	1078.5	1074.4	1073.5	1072.8	1075.6
20°	1054.1	1050.0	1047.8	1047.5	1052.0
22.5°	1024.7	1021.8	1022.5	1020.1	1023.4
25°	991.9	990.6	988.6	986.9	989.4
27.5°	958.0	953.7	953.7	950.5	953.0
30°	918.9	916.1	913.6	910.2	911.9
32.5°	875.0	873.8	870.1	866.7	867.6
35°	832.3	829.0	825.7	820.7	818.2
37.5°	783.4	780.1	776.0	768.9	768.1
40°	733.7	730.7	724.1	716.6	717.1
42.5°	686.5	681.9	673.6	663.6	661.5
45°	629.2	626.8	618.0	608.4	606.4
47.5°	578.3	576.5	565.8	555.8	553.3
50°	527.3	522.7	513.6	503.6	498.2
52.5°	477.1	471.3	459.7	453.0	450.6
55°	427.8	422.8	412.9	402.5	400.0
57.5°	381.8	376.3	364.4	356.9	355.6
60°	337.8	332.8	320.0	314.6	314.2
62.5°	298.8	290.6	281.8	278.1	278.6
65°	261.1	252.8	243.7	242.9	245.4
67.5°	228.0	219.3	210.2	213.5	215.9
70°	194.4	188.2	183.2	188.6	192.0
72.5°	165.8	162.1	157.6	164.9	169.1
75°	143.0	138.0	135.5	142.2	148.0
77.5°	118.5	114.4	114.4	121.4	127.6
80°	96.1	93.2	93.7	102.0	105.7
82.5°	75.4	71.3	71.7	82.0	84.5
85°	53.1	49.7	50.1	58.8	58.5
87.5°	27.8	26.5	27.8	34.0	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)