

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: P293289

Luminaire Tested: **24GR-LD5-30-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F125-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2798.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

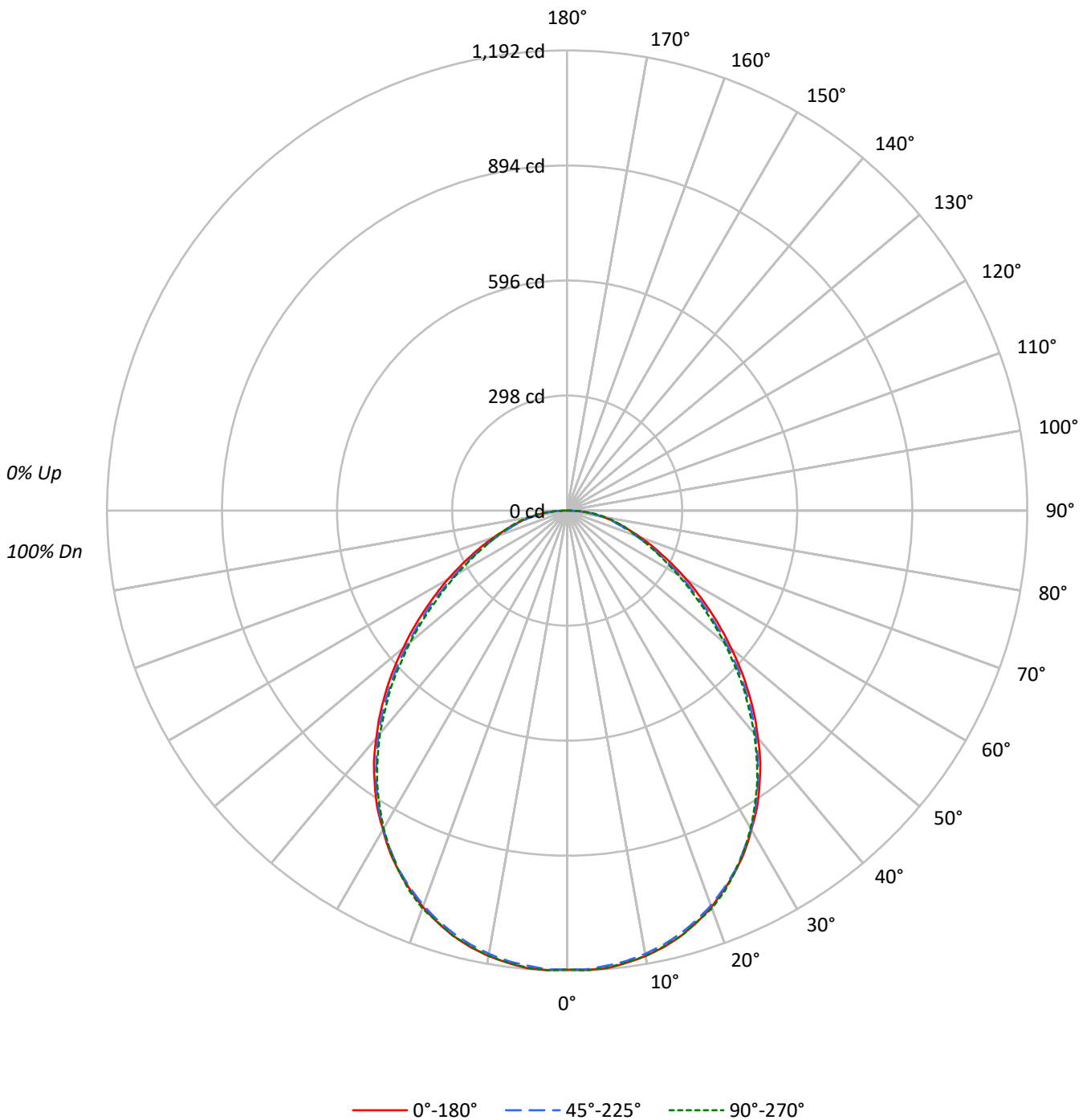
Input Watts (W): 20.51487
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1600	1600	1600
5°	1607	1598	1605
10°	1601	1593	1600
15°	1588	1580	1589
20°	1565	1559	1570
25°	1531	1527	1530
30°	1483	1480	1477
35°	1427	1416	1410
40°	1351	1335	1324
45°	1263	1240	1225
50°	1161	1130	1110
55°	1059	1020	990
60°	961	910	886
65°	866	817	803
70°	793	742	762
75°	741	707	760
80°	735	722	793
85°	749	756	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	4.0
10°-20°	320.0	11.4
20°-30°	472.7	16.9
30°-40°	537.4	19.2
40°-50°	501.8	17.9
50°-60°	390.3	13.9
60°-70°	258.9	9.3
70°-80°	149.9	5.4
80°-90°	54.5	1.9
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°	905.2	32.4
0°-40°	1442.6	51.6
0°-60°	2334.7	83.4
0°-90°	2798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1190	1184	1184	1186	1188	113
15°	1140	1134	1134	1134	1141	321
25°	1031	1027	1029	1026	1031	474
35°	869	864	862	856	858	542
45°	664	659	652	643	644	512
55°	451	445	435	423	422	405
65°	272	264	257	252	252	272
75°	143	139	136	142	146	153
85°	48	48	49	56	56	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.1	1189.1	1189.1	1189.1	1189.1
2.5°	1190.9	1187.4	1189.1	1187.8	1191.8
5°	1190.0	1183.9	1183.5	1185.7	1188.3
7.5°	1181.7	1175.2	1176.5	1176.5	1180.8
10°	1171.7	1165.1	1166.0	1166.4	1171.2
12.5°	1158.1	1151.5	1152.0	1151.5	1156.3
15°	1140.2	1134.5	1134.0	1133.6	1141.0
17.5°	1118.3	1110.4	1113.1	1113.5	1117.4
20°	1092.9	1086.8	1088.6	1088.1	1096.4
22.5°	1062.8	1058.4	1059.7	1058.8	1066.7
25°	1031.3	1026.9	1028.6	1026.5	1030.8
27.5°	995.8	992.8	991.0	989.7	992.8
30°	954.3	952.5	952.5	946.9	950.4
32.5°	914.9	909.2	909.2	907.1	904.9
35°	868.6	864.2	862.0	855.9	858.5
37.5°	822.2	812.2	811.3	806.5	806.5
40°	768.9	763.2	760.1	754.9	754.0
42.5°	718.1	712.4	707.2	698.4	696.7
45°	663.9	658.6	651.6	643.3	643.8
47.5°	610.1	602.7	596.1	586.0	584.7
50°	554.6	549.3	539.7	530.9	530.5
52.5°	502.5	494.2	485.5	475.0	475.0
55°	451.3	444.8	434.7	423.4	422.0
57.5°	402.4	396.2	384.9	376.6	374.4
60°	357.3	348.6	338.1	331.1	329.3
62.5°	312.3	304.4	296.5	289.5	289.1
65°	272.0	263.7	256.7	251.9	252.3
67.5°	235.7	228.7	220.9	219.5	220.0
70°	201.6	194.2	188.5	191.6	193.7
72.5°	169.3	165.3	161.4	165.8	168.8
75°	142.6	139.1	136.0	142.1	146.1
77.5°	118.1	115.5	115.0	120.3	123.8
80°	94.9	91.8	93.2	99.3	102.3
82.5°	72.2	70.0	70.4	77.8	80.0
85°	48.5	47.7	49.0	55.5	56.0
87.5°	25.8	25.8	26.7	30.6	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)