

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: P293287

Luminaire Tested: **24GR-LD5-30-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293287
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2371.0 lumens
Efficiency: N/A
Efficacy: 115.9 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

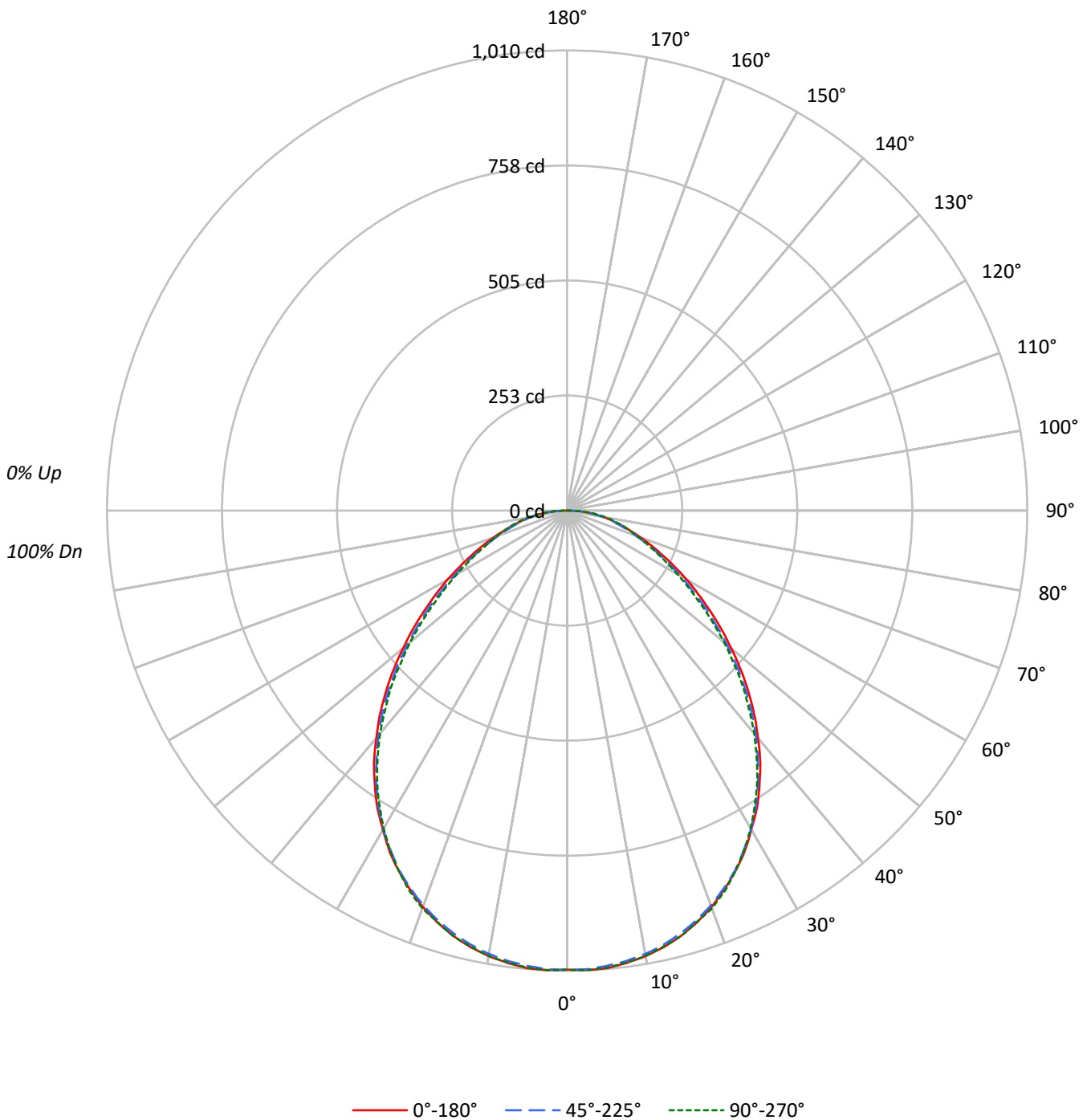
Input Watts (W): 20.454885
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	1356	1356	1356
5°	1362	1355	1360
10°	1357	1350	1356
15°	1346	1339	1347
20°	1326	1321	1330
25°	1297	1294	1297
30°	1256	1254	1251
35°	1209	1200	1195
40°	1144	1131	1122
45°	1071	1051	1038
50°	984	957	941
55°	897	864	839
60°	815	771	751
65°	734	692	681
70°	672	628	646
75°	628	599	644
80°	623	611	672
85°	634	641	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	4.0
10°-20°	271.1	11.4
20°-30°	400.6	16.9
30°-40°	455.4	19.2
40°-50°	425.3	17.9
50°-60°	330.7	13.9
60°-70°	219.4	9.3
70°-80°	127.0	5.4
80°-90°	46.2	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°	767.1	32.4
0°-40°	1222.4	51.6
0°-60°	1978.4	83.4
0°-90°	2371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1008	1003	1003	1005	1007	96
15°	966	961	961	961	967	272
25°	874	870	872	870	874	402
35°	736	732	730	725	728	460
45°	563	558	552	545	546	433
55°	382	377	368	359	358	343
65°	230	224	218	214	214	230
75°	121	118	115	120	124	129
85°	41	40	42	47	47	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.7	1007.7	1007.7	1007.7	1007.7
2.5°	1009.2	1006.2	1007.7	1006.6	1009.9
5°	1008.4	1003.2	1002.9	1004.7	1006.9
7.5°	1001.4	995.8	996.9	996.9	1000.6
10°	992.9	987.3	988.0	988.4	992.5
12.5°	981.4	975.8	976.2	975.8	979.9
15°	966.2	961.3	961.0	960.6	966.9
17.5°	947.6	941.0	943.2	943.6	946.9
20°	926.1	921.0	922.4	922.1	929.1
22.5°	900.6	896.9	898.0	897.2	903.9
25°	873.9	870.2	871.7	869.8	873.5
27.5°	843.9	841.3	839.8	838.7	841.3
30°	808.7	807.2	807.2	802.4	805.3
32.5°	775.3	770.5	770.5	768.6	766.8
35°	736.0	732.3	730.5	725.3	727.5
37.5°	696.7	688.2	687.5	683.4	683.4
40°	651.5	646.7	644.1	639.7	638.9
42.5°	608.5	603.7	599.3	591.9	590.4
45°	562.6	558.1	552.2	545.2	545.5
47.5°	517.0	510.7	505.1	496.6	495.5
50°	469.9	465.5	457.3	449.9	449.5
52.5°	425.8	418.8	411.4	402.5	402.5
55°	382.5	376.9	368.4	358.7	357.6
57.5°	341.0	335.8	326.1	319.1	317.2
60°	302.8	295.4	286.5	280.5	279.1
62.5°	264.6	257.9	251.3	245.3	245.0
65°	230.5	223.5	217.5	213.5	213.8
67.5°	199.8	193.8	187.2	186.0	186.4
70°	170.8	164.5	159.7	162.3	164.2
72.5°	143.4	140.1	136.8	140.5	143.1
75°	120.8	117.9	115.3	120.4	123.8
77.5°	100.1	97.8	97.5	101.9	104.9
80°	80.4	77.8	78.9	84.1	86.7
82.5°	61.1	59.3	59.7	66.0	67.8
85°	41.1	40.4	41.5	47.1	47.4
87.5°	21.9	21.9	22.6	25.9	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)