

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: P293585

Luminaire Tested: **24GR-LD5-30-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2513.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

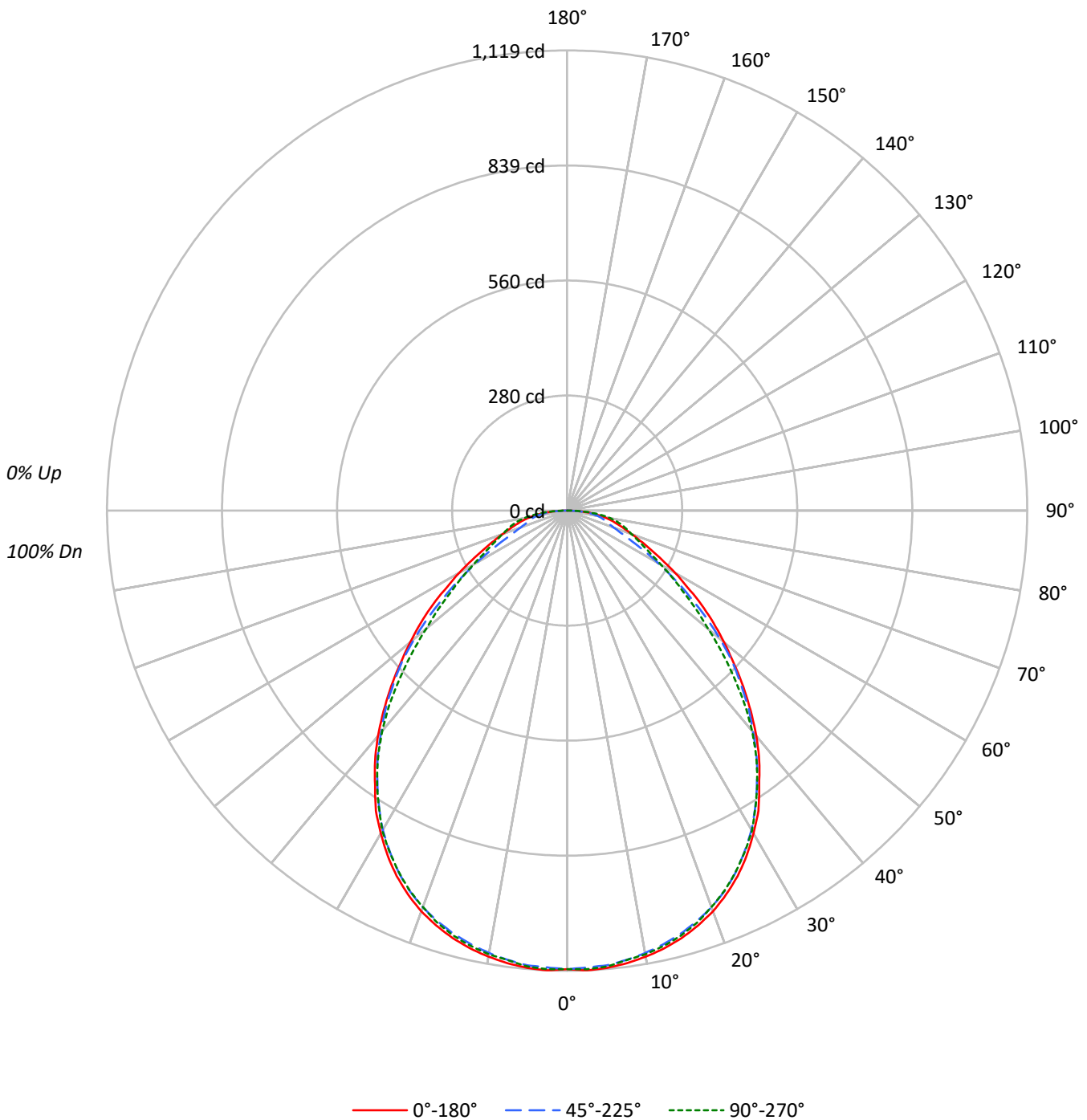
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1500	1500	1500
5°	1508	1499	1503
10°	1505	1493	1497
15°	1499	1484	1490
20°	1485	1470	1469
25°	1456	1440	1439
30°	1408	1393	1396
35°	1337	1322	1324
40°	1257	1236	1228
45°	1152	1137	1092
50°	1042	1013	937
55°	935	852	808
60°	819	685	710
65°	714	539	654
70°	654	471	654
75°	654	501	721
80°	710	590	821
85°	780	665	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	4.2
10°-20°	301.3	12.0
20°-30°	446.8	17.8
30°-40°	504.0	20.1
40°-50°	456.5	18.2
50°-60°	329.3	13.1
60°-70°	196.7	7.8
70°-80°	121.6	4.8
80°-90°	51.2	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°	853.7	34.0
0°-40°	1357.8	54.0
0°-60°	2143.6	85.3
0°-90°	2513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1116	1115	1110	1109	1113	106
15°	1076	1070	1065	1066	1070	303
25°	981	975	970	967	969	451
35°	814	813	805	805	806	509
45°	606	602	598	583	574	467
55°	399	386	363	345	344	356
65°	224	198	169	192	205	226
75°	126	109	96	120	139	134
85°	50	44	43	56	57	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.0	1115.0	1115.0	1115.0	1115.0
2.5°	1118.9	1115.8	1111.9	1114.2	1116.2
5°	1116.2	1114.6	1109.9	1108.8	1112.7
7.5°	1110.3	1106.4	1102.2	1104.1	1102.6
10°	1101.4	1097.9	1092.5	1092.9	1095.6
12.5°	1090.5	1086.3	1080.4	1082.0	1084.3
15°	1076.2	1069.6	1065.3	1065.7	1070.0
17.5°	1057.9	1052.9	1047.4	1048.6	1050.5
20°	1037.0	1034.2	1026.5	1024.1	1026.1
22.5°	1010.6	1005.5	1001.2	1000.1	1000.5
25°	980.7	975.2	970.2	966.7	969.4
27.5°	945.7	941.1	934.5	933.3	935.6
30°	906.1	902.6	896.8	895.3	898.7
32.5°	865.7	859.9	851.8	851.8	852.5
35°	814.1	812.9	804.8	805.2	806.0
37.5°	767.5	762.1	757.4	752.8	755.1
40°	715.9	709.7	703.5	700.4	699.2
42.5°	660.4	655.7	653.0	641.7	639.0
45°	605.6	601.8	597.5	582.7	573.8
47.5°	549.7	549.0	545.5	519.4	510.5
50°	497.7	496.5	484.1	456.6	447.6
52.5°	448.4	440.6	424.3	397.2	395.6
55°	398.7	386.3	363.0	345.1	344.4
57.5°	346.3	331.5	307.9	298.2	303.2
60°	304.4	281.9	254.7	255.8	264.0
62.5°	260.9	235.7	208.9	220.5	230.2
65°	224.4	197.6	169.3	192.2	205.4
67.5°	192.6	167.7	140.5	171.2	184.0
70°	166.2	146.0	119.6	151.8	166.2
72.5°	145.2	126.6	106.0	136.3	153.0
75°	125.8	109.1	96.3	120.0	138.6
77.5°	109.1	92.8	87.0	106.0	124.2
80°	91.6	76.9	76.1	92.4	106.0
82.5°	71.4	61.3	61.3	77.3	85.4
85°	50.5	44.3	43.1	56.3	57.1
87.5°	26.0	24.8	22.5	29.5	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)