

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: P293794

Luminaire Tested: **24GR-LD5-30-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A125-UNV-L93050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2852.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

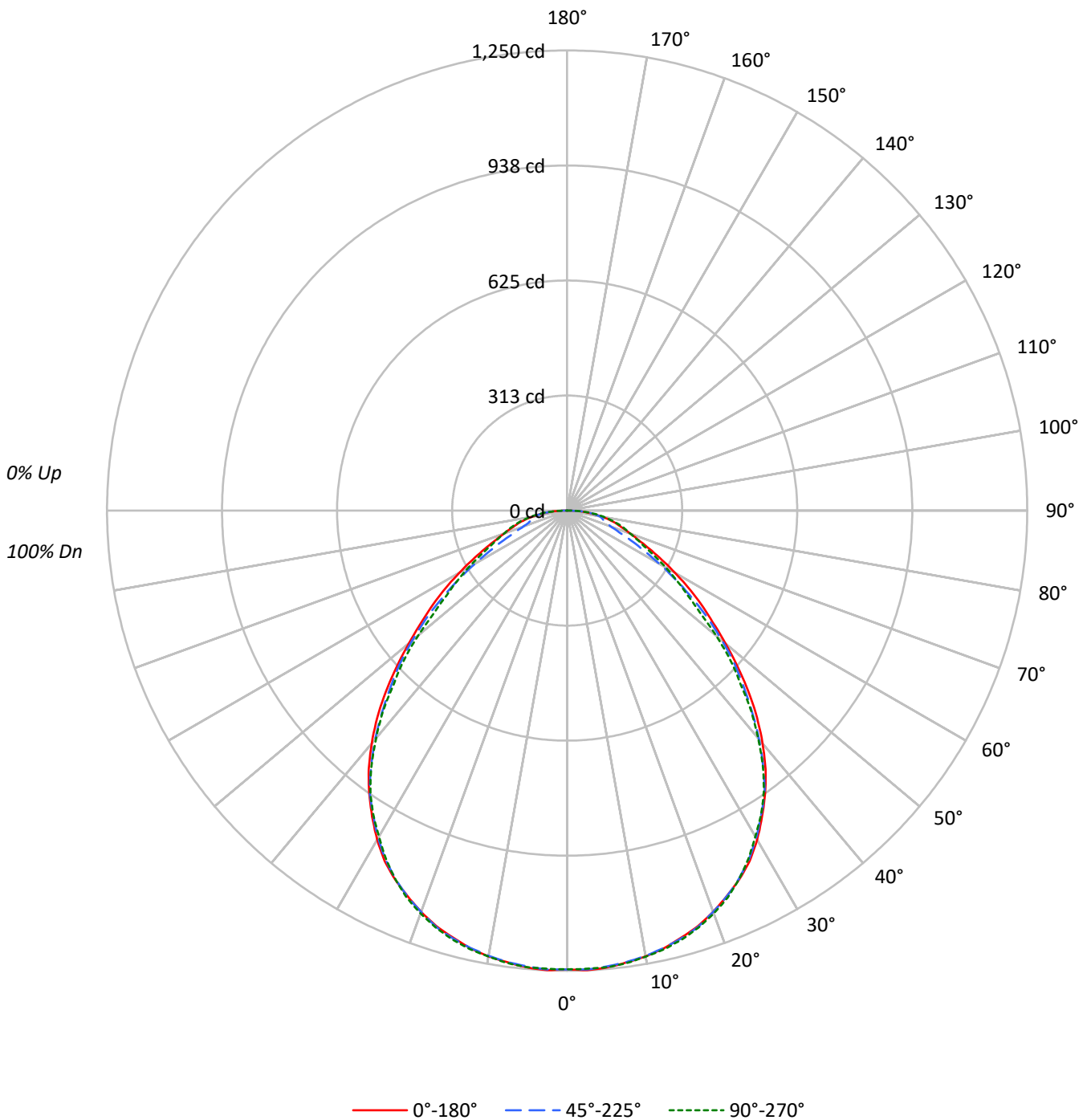
Input Watts (W): 20.83479
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	1677	1677	1677
5°	1683	1679	1682
10°	1680	1678	1681
15°	1672	1675	1679
20°	1661	1661	1667
25°	1642	1639	1640
30°	1604	1595	1588
35°	1541	1536	1530
40°	1451	1425	1418
45°	1327	1291	1267
50°	1173	1150	1105
55°	1044	973	935
60°	909	778	834
65°	785	603	738
70°	716	494	714
75°	722	532	758
80°	752	693	800
85°	783	824	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	4.1
10°-20°	339.0	11.9
20°-30°	507.5	17.8
30°-40°	579.9	20.3
40°-50°	524.3	18.4
50°-60°	377.2	13.2
60°-70°	218.7	7.7
70°-80°	129.7	4.5
80°-90°	57.4	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°	964.8	33.8
0°-40°	1544.7	54.2
0°-60°	2446.2	85.8
0°-90°	2852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1246	1244	1243	1241	1245	118
15°	1200	1203	1203	1201	1206	339
25°	1106	1105	1104	1102	1105	509
35°	938	933	935	924	932	585
45°	698	686	678	672	666	536
55°	445	436	415	404	399	398
65°	246	219	190	212	232	249
75°	139	116	102	126	146	147
85°	51	55	53	61	57	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.2	1246.2	1246.2	1246.2	1246.2
2.5°	1249.8	1245.3	1247.6	1246.2	1245.8
5°	1245.8	1244.0	1243.1	1241.3	1245.3
7.5°	1237.8	1236.4	1236.9	1237.3	1240.0
10°	1229.8	1227.5	1228.0	1228.9	1230.2
12.5°	1217.3	1216.0	1216.4	1217.3	1220.4
15°	1200.4	1202.6	1202.6	1201.3	1205.7
17.5°	1183.5	1183.0	1185.3	1181.3	1187.5
20°	1159.9	1160.4	1159.9	1160.4	1164.4
22.5°	1133.2	1135.4	1134.1	1134.1	1138.6
25°	1106.1	1104.7	1103.9	1101.6	1104.7
27.5°	1073.6	1070.9	1068.7	1064.3	1066.5
30°	1032.2	1032.7	1026.9	1022.9	1022.0
32.5°	985.9	985.9	980.6	977.5	980.2
35°	937.9	933.4	935.2	923.7	931.7
37.5°	885.8	878.7	874.7	870.7	873.4
40°	826.2	816.9	811.1	803.1	807.5
42.5°	763.5	751.9	744.8	739.0	740.8
45°	697.6	685.6	678.5	672.3	666.0
47.5°	628.2	620.7	617.1	609.1	602.0
50°	560.6	557.9	549.5	542.8	528.1
52.5°	498.8	496.5	483.2	472.1	453.4
55°	444.9	436.5	414.7	404.0	398.6
57.5°	390.2	376.4	350.2	348.8	352.4
60°	337.7	320.8	289.2	296.3	310.1
62.5°	290.1	264.7	234.5	251.4	267.8
65°	246.5	218.9	189.5	211.8	231.8
67.5°	210.4	182.9	152.6	182.4	205.6
70°	182.0	153.9	125.5	159.7	181.5
72.5°	158.4	133.0	109.5	141.9	164.6
75°	138.8	116.1	102.3	126.4	145.9
77.5°	119.2	101.0	97.9	112.6	124.6
80°	97.0	88.5	89.4	98.8	103.2
82.5°	72.5	73.0	75.2	82.8	81.0
85°	50.7	54.7	53.4	61.4	57.4
87.5°	28.0	30.7	28.9	35.1	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)