

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: P293842

Luminaire Tested: **24GR-LD5-30-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293842
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-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2866.0 lumens
Efficiency: N/A
Efficacy: 139.4 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

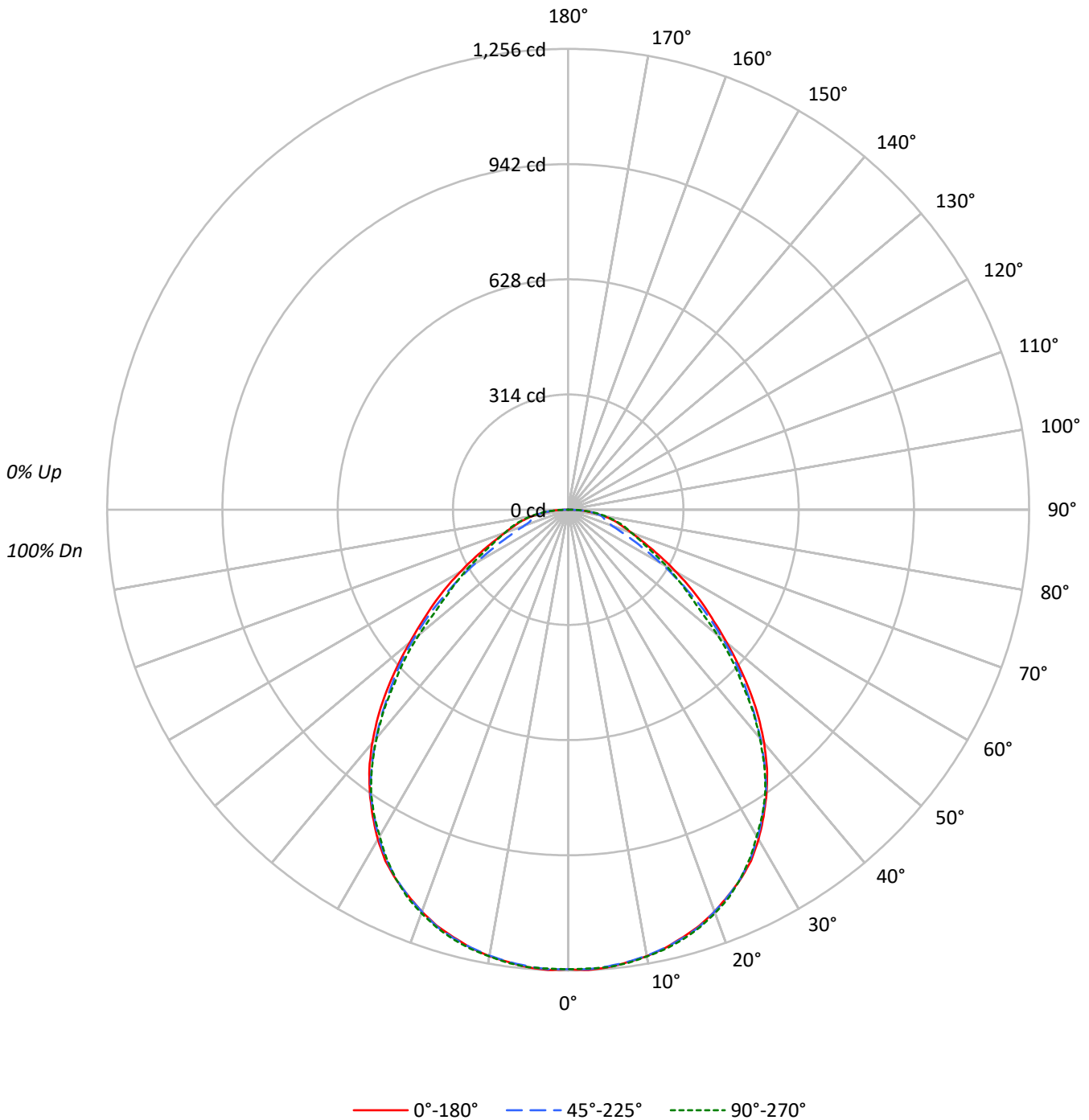
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1685	1685	1685
5°	1691	1687	1690
10°	1688	1686	1689
15°	1680	1683	1688
20°	1669	1669	1675
25°	1650	1647	1648
30°	1612	1603	1596
35°	1548	1544	1538
40°	1458	1432	1425
45°	1334	1297	1274
50°	1179	1156	1111
55°	1049	977	940
60°	913	782	839
65°	789	606	741
70°	720	496	718
75°	725	534	763
80°	755	697	804
85°	787	829	891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	4.1
10°-20°	340.7	11.9
20°-30°	510.0	17.8
30°-40°	582.8	20.3
40°-50°	526.9	18.4
50°-60°	379.1	13.2
60°-70°	219.8	7.7
70°-80°	130.4	4.5
80°-90°	57.8	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°	969.5	33.8
0°-40°	1552.3	54.2
0°-60°	2458.2	85.8
0°-90°	2866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1252	1250	1249	1247	1251	119
15°	1206	1208	1208	1207	1212	341
25°	1112	1110	1109	1107	1110	511
35°	942	938	940	928	936	588
45°	701	689	682	676	669	539
55°	447	439	417	406	401	400
65°	248	220	190	213	233	250
75°	140	117	103	127	147	147
85°	51	55	54	62	58	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.3	1252.3	1252.3	1252.3	1252.3
2.5°	1255.9	1251.4	1253.7	1252.3	1251.9
5°	1251.9	1250.1	1249.2	1247.4	1251.4
7.5°	1243.8	1242.5	1243.0	1243.4	1246.1
10°	1235.8	1233.6	1234.0	1234.9	1236.2
12.5°	1223.3	1221.9	1222.4	1223.3	1226.4
15°	1206.3	1208.5	1208.5	1207.2	1211.7
17.5°	1189.3	1188.9	1191.1	1187.1	1193.3
20°	1165.6	1166.1	1165.6	1166.1	1170.1
22.5°	1138.8	1141.0	1139.7	1139.7	1144.1
25°	1111.5	1110.2	1109.3	1107.0	1110.2
27.5°	1078.9	1076.2	1073.9	1069.5	1071.7
30°	1037.3	1037.7	1031.9	1027.9	1027.0
32.5°	990.8	990.8	985.4	982.3	985.0
35°	942.5	938.0	939.8	928.2	936.2
37.5°	890.2	883.0	879.0	875.0	877.7
40°	830.3	820.9	815.1	807.0	811.5
42.5°	767.2	755.6	748.5	742.6	744.4
45°	701.1	689.0	681.8	675.6	669.3
47.5°	631.3	623.7	620.1	612.1	604.9
50°	563.4	560.7	552.2	545.5	530.7
52.5°	501.2	499.0	485.6	474.4	455.6
55°	447.1	438.6	416.7	406.0	400.6
57.5°	392.1	378.3	351.9	350.5	354.1
60°	339.4	322.4	290.6	297.8	311.6
62.5°	291.5	266.0	235.6	252.6	269.2
65°	247.7	220.0	190.5	212.8	232.9
67.5°	211.5	183.8	153.4	183.3	206.6
70°	182.9	154.7	126.1	160.5	182.4
72.5°	159.2	133.7	110.0	142.6	165.4
75°	139.5	116.7	102.8	127.0	146.7
77.5°	119.8	101.5	98.4	113.1	125.2
80°	97.5	89.0	89.9	99.3	103.7
82.5°	72.9	73.3	75.6	83.2	81.4
85°	51.0	55.0	53.7	61.7	57.7
87.5°	28.2	30.9	29.1	35.3	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)