

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: P293839

Luminaire Tested: **24GR-LD5-30-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293839
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2697.0 lumens
Efficiency: N/A
Efficacy: 133.0 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

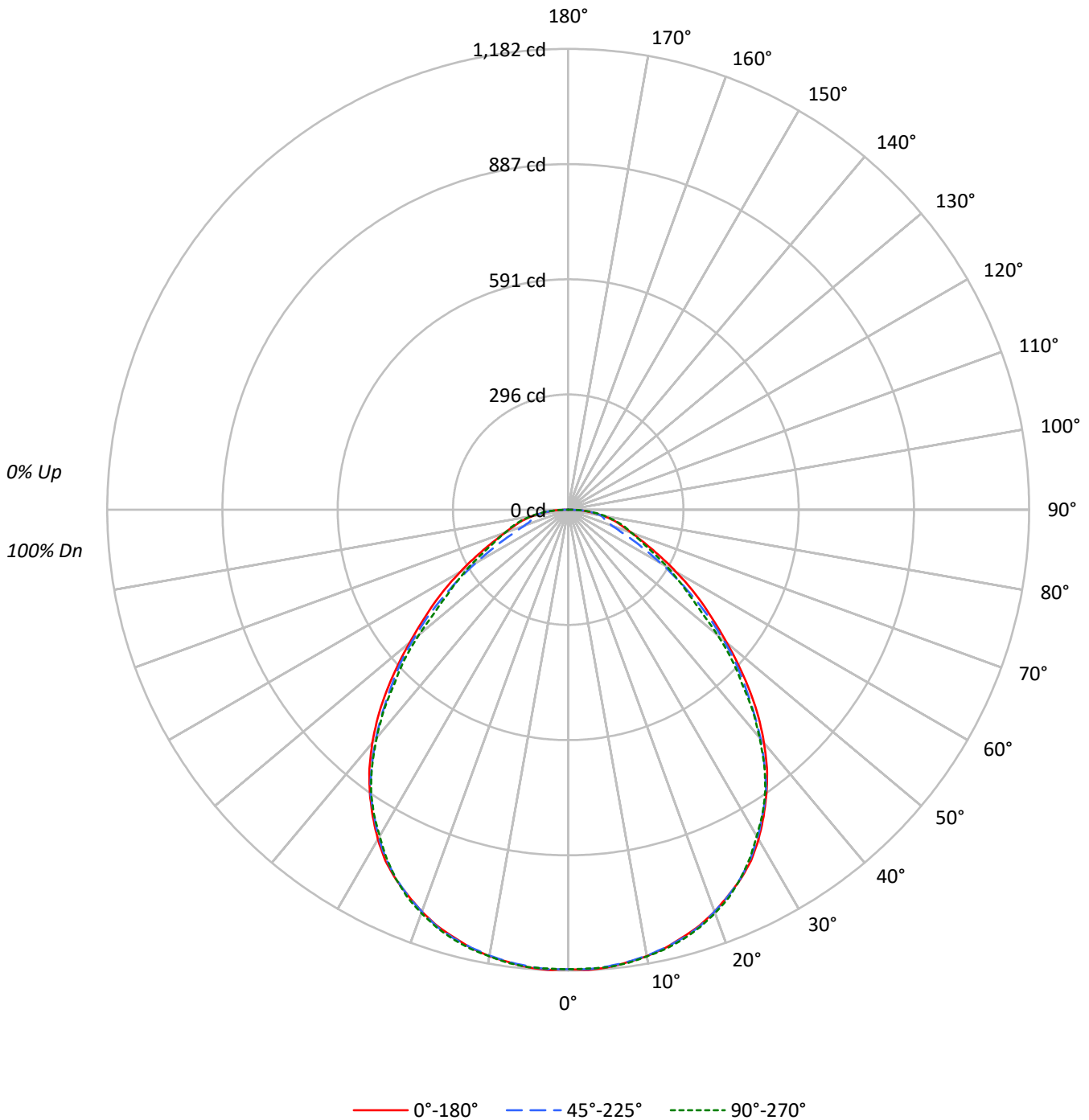
Input Watts (W): 20.274
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1586	1586	1586
5°	1591	1588	1591
10°	1589	1586	1589
15°	1581	1584	1588
20°	1571	1571	1577
25°	1553	1550	1551
30°	1517	1509	1501
35°	1457	1453	1447
40°	1372	1347	1341
45°	1255	1221	1198
50°	1110	1088	1045
55°	987	920	884
60°	859	736	789
65°	742	571	698
70°	677	467	675
75°	683	503	717
80°	711	656	756
85°	741	780	838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	4.1
10°-20°	320.6	11.9
20°-30°	479.9	17.8
30°-40°	548.4	20.3
40°-50°	495.8	18.4
50°-60°	356.7	13.2
60°-70°	206.8	7.7
70°-80°	122.7	4.5
80°-90°	54.3	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°	912.3	33.8
0°-40°	1460.7	54.2
0°-60°	2313.2	85.8
0°-90°	2697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1178	1176	1176	1174	1178	112
15°	1135	1137	1137	1136	1140	320
25°	1046	1045	1044	1042	1045	481
35°	887	883	884	874	881	553
45°	660	648	642	636	630	507
55°	421	413	392	382	377	376
65°	233	207	179	200	219	235
75°	131	110	97	120	138	139
85°	48	52	50	58	54	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.5	1178.5	1178.5	1178.5	1178.5
2.5°	1181.9	1177.7	1179.8	1178.5	1178.1
5°	1178.1	1176.4	1175.6	1173.9	1177.7
7.5°	1170.5	1169.2	1169.7	1170.1	1172.6
10°	1162.9	1160.8	1161.2	1162.1	1163.3
12.5°	1151.1	1149.9	1150.3	1151.1	1154.1
15°	1135.2	1137.3	1137.3	1136.0	1140.2
17.5°	1119.2	1118.8	1120.9	1117.1	1123.0
20°	1096.9	1097.3	1096.9	1097.3	1101.1
22.5°	1071.6	1073.7	1072.5	1072.5	1076.7
25°	1046.0	1044.7	1043.9	1041.8	1044.7
27.5°	1015.2	1012.7	1010.6	1006.4	1008.5
30°	976.1	976.5	971.1	967.3	966.4
32.5°	932.4	932.4	927.3	924.4	926.9
35°	886.9	882.7	884.4	873.5	881.0
37.5°	837.7	831.0	827.2	823.4	825.9
40°	781.3	772.5	767.0	759.4	763.6
42.5°	722.0	711.1	704.3	698.9	700.5
45°	659.7	648.4	641.6	635.7	629.8
47.5°	594.1	586.9	583.6	576.0	569.3
50°	530.1	527.6	519.6	513.3	499.4
52.5°	471.7	469.5	456.9	446.4	428.7
55°	420.7	412.7	392.1	382.0	377.0
57.5°	369.0	355.9	331.1	329.9	333.2
60°	319.3	303.4	273.5	280.2	293.3
62.5°	274.3	250.3	221.7	237.7	253.3
65°	233.1	207.0	179.2	200.3	219.2
67.5°	199.0	172.9	144.3	172.5	194.4
70°	172.1	145.6	118.6	151.0	171.7
72.5°	149.8	125.8	103.5	134.2	155.7
75°	131.3	109.8	96.8	119.5	138.0
77.5°	112.8	95.5	92.6	106.4	117.8
80°	91.7	83.7	84.6	93.4	97.6
82.5°	68.6	69.0	71.1	78.3	76.6
85°	48.0	51.8	50.5	58.1	54.3
87.5°	26.5	29.0	27.3	33.2	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)