

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: P293332

Luminaire Tested: **24GR-LD5-30-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293332
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-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2388.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

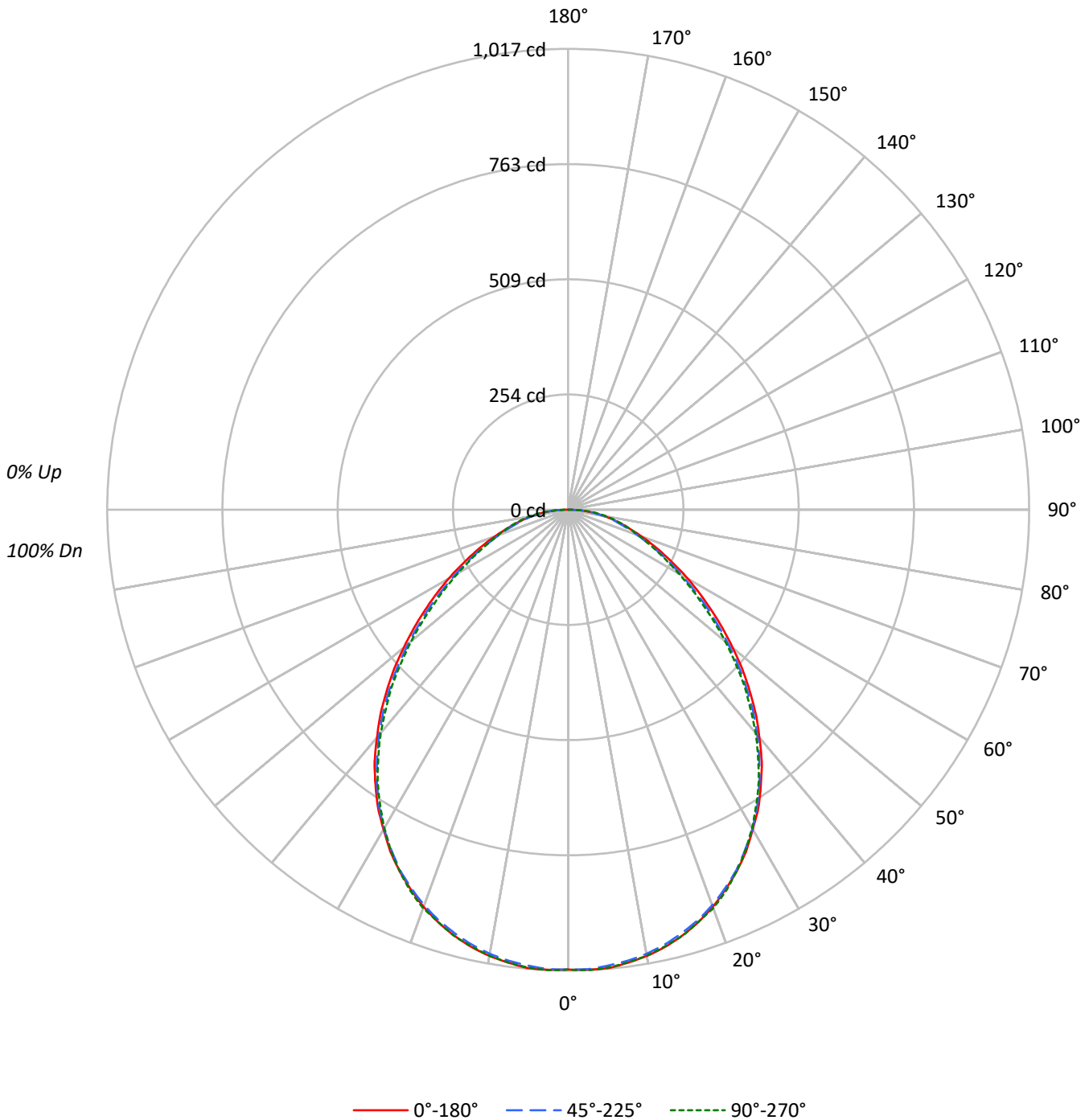
Input Watts (W): 19.902
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	1366	1366	1366
5°	1372	1364	1370
10°	1366	1360	1366
15°	1355	1348	1356
20°	1336	1330	1340
25°	1307	1303	1306
30°	1265	1263	1260
35°	1218	1208	1203
40°	1153	1139	1130
45°	1078	1058	1045
50°	991	964	948
55°	904	870	845
60°	821	776	756
65°	739	698	686
70°	677	633	651
75°	633	604	648
80°	628	616	676
85°	639	645	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	4.0
10°-20°	273.1	11.4
20°-30°	403.4	16.9
30°-40°	458.6	19.2
40°-50°	428.3	17.9
50°-60°	333.1	13.9
60°-70°	221.0	9.3
70°-80°	127.9	5.4
80°-90°	46.5	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°	772.5	32.4
0°-40°	1231.2	51.6
0°-60°	1992.6	83.4
0°-90°	2388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1016	1010	1010	1012	1014	96
15°	973	968	968	968	974	274
25°	880	876	878	876	880	405
35°	741	738	736	730	733	463
45°	567	562	556	549	549	437
55°	385	380	371	361	360	345
65°	232	225	219	215	215	232
75°	122	119	116	121	125	130
85°	41	41	42	47	48	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1014.9	1014.9	1014.9	1014.9	1014.9
2.5°	1016.4	1013.4	1014.9	1013.8	1017.1
5°	1015.6	1010.4	1010.0	1011.9	1014.2
7.5°	1008.6	1003.0	1004.1	1004.1	1007.8
10°	1000.0	994.4	995.1	995.5	999.6
12.5°	988.4	982.8	983.2	982.8	986.9
15°	973.1	968.2	967.9	967.5	973.8
17.5°	954.4	947.7	950.0	950.3	953.7
20°	932.8	927.6	929.0	928.7	935.8
22.5°	907.0	903.3	904.4	903.7	910.4
25°	880.2	876.4	877.9	876.0	879.8
27.5°	849.9	847.3	845.8	844.7	847.3
30°	814.5	813.0	813.0	808.1	811.1
32.5°	780.9	776.0	776.0	774.1	772.3
35°	741.3	737.6	735.7	730.5	732.7
37.5°	701.7	693.1	692.4	688.3	688.3
40°	656.2	651.3	648.7	644.3	643.5
42.5°	612.9	608.0	603.6	596.1	594.6
45°	566.6	562.1	556.2	549.1	549.4
47.5°	520.7	514.4	508.8	500.2	499.1
50°	473.3	468.8	460.6	453.1	452.8
52.5°	428.9	421.8	414.3	405.4	405.4
55°	385.2	379.6	371.0	361.3	360.2
57.5°	343.4	338.2	328.5	321.4	319.5
60°	305.0	297.5	288.5	282.6	281.1
62.5°	266.5	259.8	253.1	247.1	246.7
65°	232.2	225.1	219.1	215.0	215.4
67.5°	201.2	195.2	188.5	187.4	187.8
70°	172.1	165.7	160.9	163.5	165.4
72.5°	144.5	141.1	137.7	141.5	144.1
75°	121.7	118.7	116.1	121.3	124.7
77.5°	100.8	98.5	98.2	102.6	105.6
80°	81.0	78.4	79.5	84.7	87.3
82.5°	61.6	59.7	60.1	66.4	68.3
85°	41.4	40.7	41.8	47.4	47.8
87.5°	22.0	22.0	22.8	26.1	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)