

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: P293163

Luminaire Tested: **24GR-LD5-30-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293163
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-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3200.0 lumens
Efficiency: N/A
Efficacy: 156.4 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

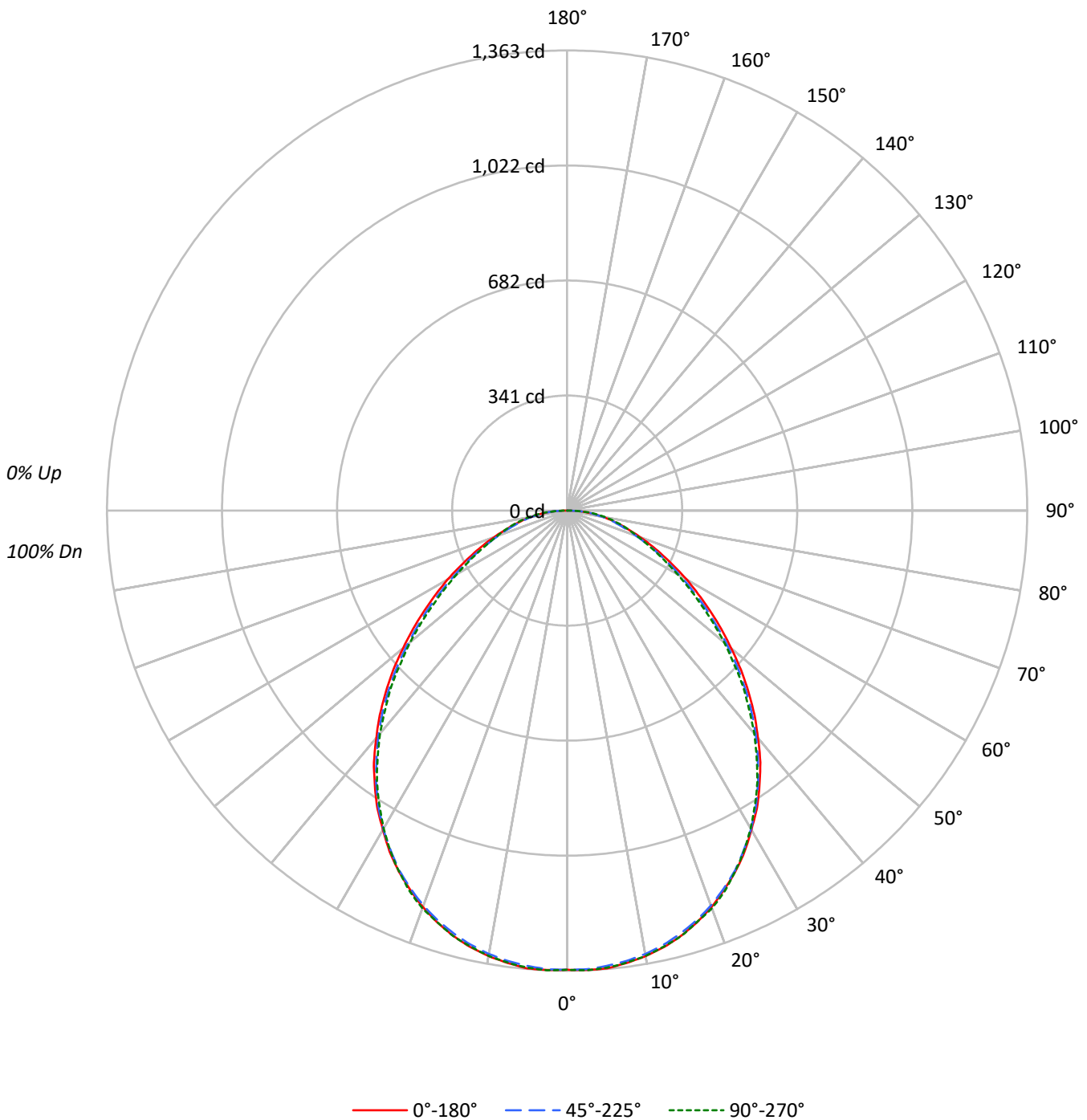
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1830	1830	1830
5°	1838	1828	1836
10°	1831	1822	1830
15°	1816	1807	1818
20°	1790	1783	1796
25°	1751	1746	1750
30°	1696	1693	1689
35°	1632	1619	1613
40°	1544	1527	1515
45°	1445	1418	1401
50°	1328	1292	1270
55°	1211	1166	1132
60°	1100	1040	1013
65°	990	935	919
70°	907	848	872
75°	848	809	869
80°	841	825	907
85°	857	865	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	4.0
10°-20°	365.9	11.4
20°-30°	540.6	16.9
30°-40°	614.6	19.2
40°-50°	574.0	17.9
50°-60°	446.4	13.9
60°-70°	296.2	9.3
70°-80°	171.4	5.4
80°-90°	62.3	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°	1035.2	32.4
0°-40°	1649.8	51.6
0°-60°	2670.1	83.4
0°-90°	3200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1361	1354	1354	1356	1359	129
15°	1304	1298	1297	1296	1305	367
25°	1179	1174	1176	1174	1179	542
35°	993	988	986	979	982	620
45°	759	753	745	736	736	585
55°	516	509	497	484	483	463
65°	311	302	294	288	289	311
75°	163	159	156	163	167	174
85°	56	54	56	64	64	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1362.0	1358.0	1360.0	1358.5	1363.0
5°	1361.0	1354.0	1353.5	1356.0	1359.0
7.5°	1351.5	1344.0	1345.5	1345.5	1350.5
10°	1340.0	1332.5	1333.5	1334.0	1339.5
12.5°	1324.5	1317.0	1317.5	1317.0	1322.5
15°	1304.0	1297.5	1297.0	1296.5	1305.0
17.5°	1279.0	1270.0	1273.0	1273.5	1278.0
20°	1250.0	1243.0	1245.0	1244.5	1254.0
22.5°	1215.4	1210.4	1211.9	1210.9	1219.9
25°	1179.4	1174.4	1176.4	1173.9	1178.9
27.5°	1138.9	1135.4	1133.4	1131.9	1135.4
30°	1091.4	1089.4	1089.4	1082.9	1086.9
32.5°	1046.4	1039.9	1039.9	1037.4	1034.9
35°	993.4	988.4	985.9	978.9	981.9
37.5°	940.3	928.8	927.8	922.3	922.3
40°	879.3	872.8	869.3	863.3	862.3
42.5°	821.3	814.8	808.8	798.8	796.8
45°	759.3	753.3	745.3	735.8	736.3
47.5°	697.8	689.3	681.8	670.2	668.7
50°	634.2	628.2	617.2	607.2	606.7
52.5°	574.7	565.2	555.2	543.2	543.2
55°	516.2	508.7	497.2	484.2	482.7
57.5°	460.2	453.2	440.2	430.7	428.2
60°	408.7	398.6	386.6	378.6	376.6
62.5°	357.1	348.1	339.1	331.1	330.6
65°	311.1	301.6	293.6	288.1	288.6
67.5°	269.6	261.6	252.6	251.1	251.6
70°	230.6	222.1	215.6	219.1	221.6
72.5°	193.6	189.1	184.6	189.6	193.1
75°	163.1	159.1	155.6	162.6	167.1
77.5°	135.0	132.0	131.5	137.6	141.6
80°	108.5	105.0	106.5	113.5	117.0
82.5°	82.5	80.0	80.5	89.0	91.5
85°	55.5	54.5	56.0	63.5	64.0
87.5°	29.5	29.5	30.5	35.0	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)