

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: P293186

Luminaire Tested: **24GR-LD5-56-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293186
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-LD5-56-F125-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5325.0 lumens
Efficiency: N/A
Efficacy: 137.0 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

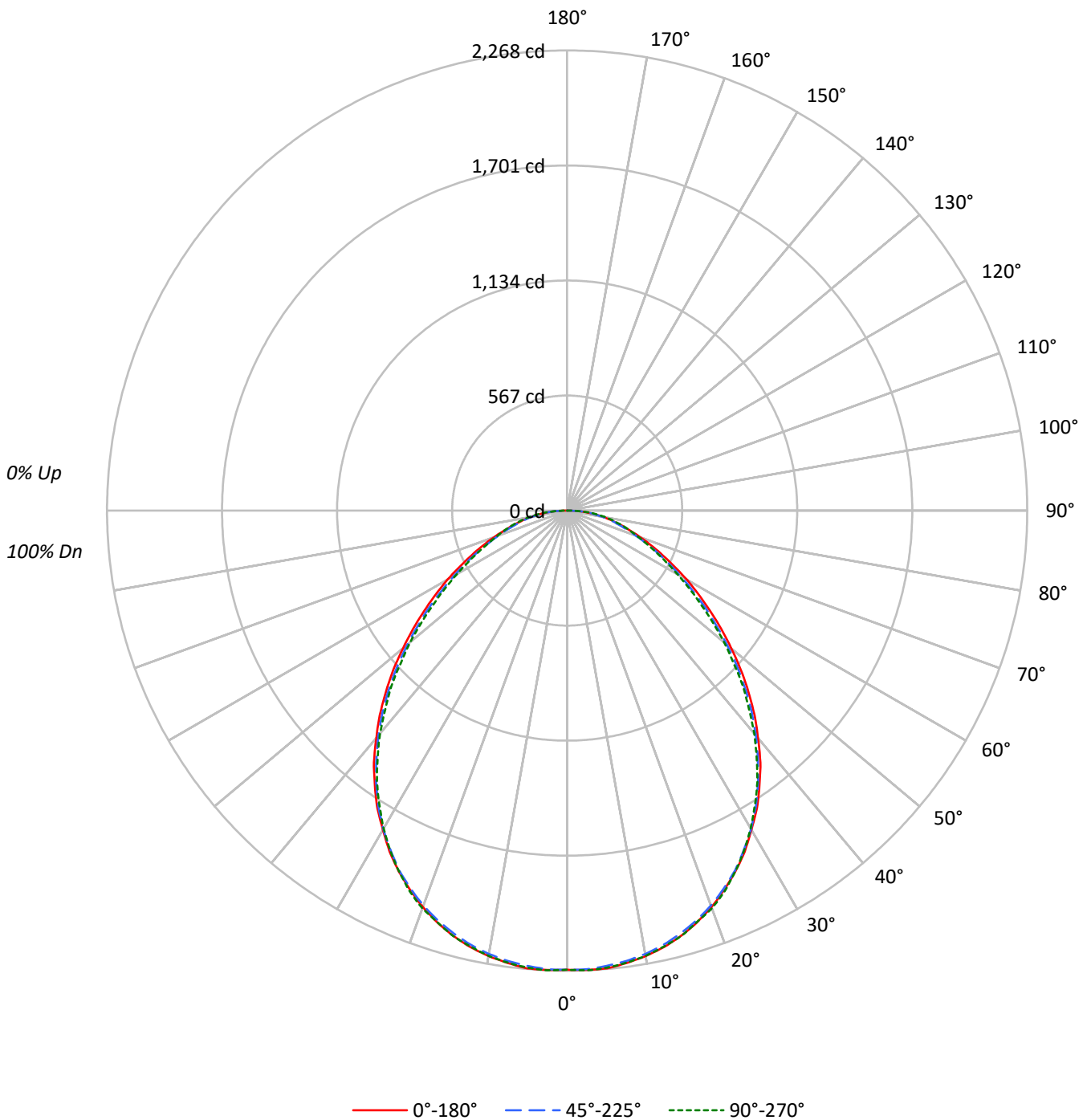
Input Watts (W): 38.874
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	3045	3045	3045
5°	3059	3042	3054
10°	3046	3032	3045
15°	3023	3006	3025
20°	2978	2966	2988
25°	2914	2906	2912
30°	2822	2816	2810
35°	2715	2695	2684
40°	2570	2541	2520
45°	2404	2360	2331
50°	2209	2150	2113
55°	2015	1941	1884
60°	1830	1731	1686
65°	1648	1556	1529
70°	1509	1411	1450
75°	1410	1346	1445
80°	1399	1374	1509
85°	1426	1439	1644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	4.0
10°-20°	608.9	11.4
20°-30°	899.6	16.9
30°-40°	1022.7	19.2
40°-50°	955.1	17.9
50°-60°	742.7	13.9
60°-70°	492.8	9.3
70°-80°	285.2	5.4
80°-90°	103.7	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°	1722.7	32.4
0°-40°	2745.4	51.6
0°-60°	4443.3	83.4
0°-90°	5325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2263	2263	2263	2263	2263	
5°	2265	2253	2252	2256	2262	215
15°	2170	2159	2158	2157	2172	611
25°	1963	1954	1958	1954	1962	902
35°	1653	1645	1640	1629	1634	1032
45°	1264	1254	1240	1224	1225	974
55°	859	846	827	806	803	770
65°	518	502	489	479	480	517
75°	271	265	259	270	278	290
85°	92	91	93	106	106	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2263.1	2263.1	2263.1	2263.1	2263.1
2.5°	2266.5	2259.8	2263.1	2260.6	2268.1
5°	2264.8	2253.1	2252.3	2256.5	2261.5
7.5°	2249.0	2236.5	2239.0	2239.0	2247.3
10°	2229.8	2217.3	2219.0	2219.8	2229.0
12.5°	2204.0	2191.5	2192.4	2191.5	2200.7
15°	2169.9	2159.1	2158.2	2157.4	2171.6
17.5°	2128.3	2113.3	2118.3	2119.1	2126.6
20°	2080.0	2068.4	2071.7	2070.9	2086.7
22.5°	2022.6	2014.3	2016.8	2015.1	2030.1
25°	1962.7	1954.3	1957.7	1953.5	1961.8
27.5°	1895.2	1889.4	1886.1	1883.6	1889.4
30°	1816.2	1812.8	1812.8	1802.0	1808.7
32.5°	1741.2	1730.4	1730.4	1726.3	1722.1
35°	1653.0	1644.7	1640.5	1628.9	1633.9
37.5°	1564.8	1545.6	1544.0	1534.8	1534.8
40°	1463.2	1452.4	1446.6	1436.6	1434.9
42.5°	1366.7	1355.9	1345.9	1329.2	1325.9
45°	1263.5	1253.5	1240.2	1224.4	1225.2
47.5°	1161.1	1147.0	1134.5	1115.3	1112.8
50°	1055.4	1045.4	1027.1	1010.5	1009.6
52.5°	956.4	940.5	923.9	903.9	903.9
55°	859.0	846.5	827.3	805.7	803.2
57.5°	765.8	754.1	732.5	716.6	712.5
60°	680.0	663.4	643.4	630.1	626.7
62.5°	594.3	579.3	564.3	551.0	550.2
65°	517.7	501.9	488.6	479.4	480.3
67.5°	448.6	435.3	420.3	417.8	418.7
70°	383.7	369.6	358.7	364.6	368.7
72.5°	322.1	314.6	307.1	315.5	321.3
75°	271.3	264.7	258.9	270.5	278.0
77.5°	224.7	219.7	218.9	228.9	235.6
80°	180.6	174.8	177.3	188.9	194.8
82.5°	137.3	133.2	134.0	148.2	152.3
85°	92.4	90.7	93.2	105.7	106.5
87.5°	49.1	49.1	50.8	58.3	55.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)