

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: P293304

Luminaire Tested: **24GR-LD5-42-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293304
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-LD5-42-F125-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3848.0 lumens
Efficiency: N/A
Efficacy: 134.0 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

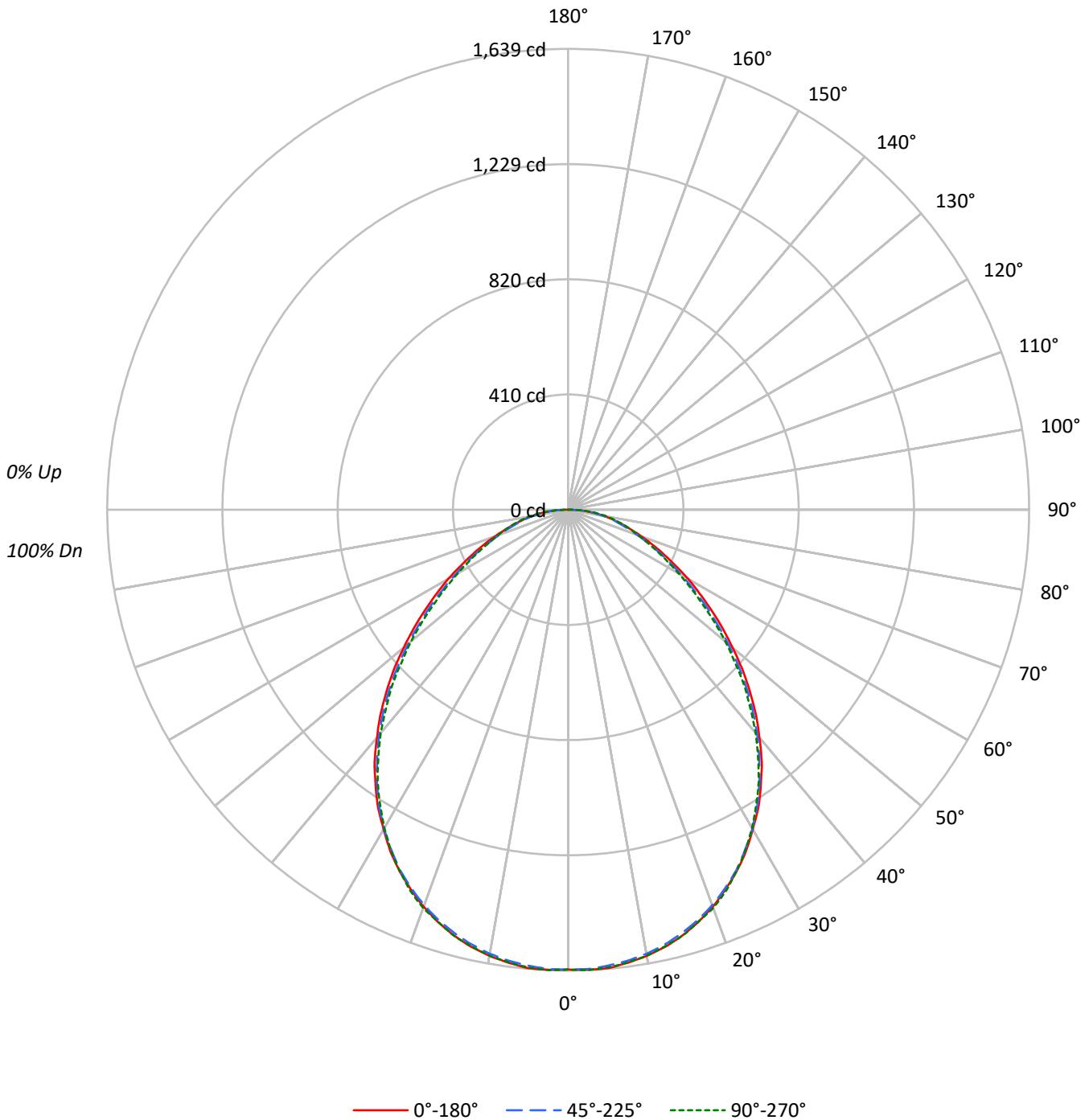
Input Watts (W): 28.720818
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2200	2200	2200
5°	2210	2198	2207
10°	2201	2191	2201
15°	2184	2172	2186
20°	2152	2144	2159
25°	2106	2100	2105
30°	2039	2035	2031
35°	1962	1947	1939
40°	1857	1836	1821
45°	1737	1705	1685
50°	1596	1554	1527
55°	1456	1403	1361
60°	1322	1251	1219
65°	1191	1124	1105
70°	1091	1020	1048
75°	1019	973	1044
80°	1011	993	1090
85°	1031	1041	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	4.0
10°-20°	440.0	11.4
20°-30°	650.1	16.9
30°-40°	739.1	19.2
40°-50°	690.2	17.9
50°-60°	536.7	13.9
60°-70°	356.1	9.3
70°-80°	206.1	5.4
80°-90°	74.9	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°	1244.9	32.4
0°-40°	1983.9	51.6
0°-60°	3210.8	83.4
0°-90°	3848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1637	1628	1628	1631	1634	155
15°	1568	1560	1560	1559	1569	442
25°	1418	1412	1415	1412	1418	652
35°	1194	1188	1186	1177	1181	746
45°	913	906	896	885	885	704
55°	621	612	598	582	580	557
65°	374	363	353	346	347	374
75°	196	191	187	196	201	210
85°	67	66	67	76	77	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1635.4	1635.4	1635.4	1635.4	1635.4
2.5°	1637.8	1633.0	1635.4	1633.6	1639.0
5°	1636.6	1628.2	1627.6	1630.6	1634.2
7.5°	1625.2	1616.2	1618.0	1618.0	1624.0
10°	1611.3	1602.3	1603.5	1604.1	1610.7
12.5°	1592.7	1583.7	1584.3	1583.7	1590.3
15°	1568.0	1560.2	1559.6	1559.0	1569.2
17.5°	1538.0	1527.1	1530.7	1531.3	1536.8
20°	1503.1	1494.7	1497.1	1496.5	1507.9
22.5°	1461.6	1455.6	1457.4	1456.2	1467.0
25°	1418.3	1412.3	1414.7	1411.7	1417.7
27.5°	1369.5	1365.3	1362.9	1361.1	1365.3
30°	1312.4	1310.0	1310.0	1302.2	1307.0
32.5°	1258.3	1250.5	1250.5	1247.5	1244.4
35°	1194.5	1188.5	1185.5	1177.1	1180.7
37.5°	1130.8	1116.9	1115.7	1109.1	1109.1
40°	1057.4	1049.6	1045.4	1038.1	1036.9
42.5°	987.6	979.8	972.6	960.5	958.1
45°	913.0	905.8	896.2	884.8	885.4
47.5°	839.1	828.8	819.8	806.0	804.2
50°	762.7	755.4	742.2	730.2	729.6
52.5°	691.1	679.7	667.6	653.2	653.2
55°	620.7	611.7	597.9	582.2	580.4
57.5°	553.4	544.9	529.3	517.9	514.9
60°	491.4	479.4	464.9	455.3	452.9
62.5°	429.5	418.6	407.8	398.2	397.6
65°	374.1	362.7	353.1	346.4	347.0
67.5°	324.2	314.6	303.7	301.9	302.5
70°	277.3	267.1	259.2	263.4	266.5
72.5°	232.8	227.4	221.9	228.0	232.2
75°	196.1	191.3	187.1	195.5	200.9
77.5°	162.4	158.8	158.2	165.4	170.2
80°	130.5	126.3	128.1	136.5	140.7
82.5°	99.2	96.2	96.8	107.1	110.1
85°	66.8	65.6	67.4	76.4	77.0
87.5°	35.5	35.5	36.7	42.1	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)