

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: P293349

Luminaire Tested: **24GR-LD5-34-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293349
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-LD5-34-F125-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3313.0 lumens
Efficiency: N/A
Efficacy: 137.5 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

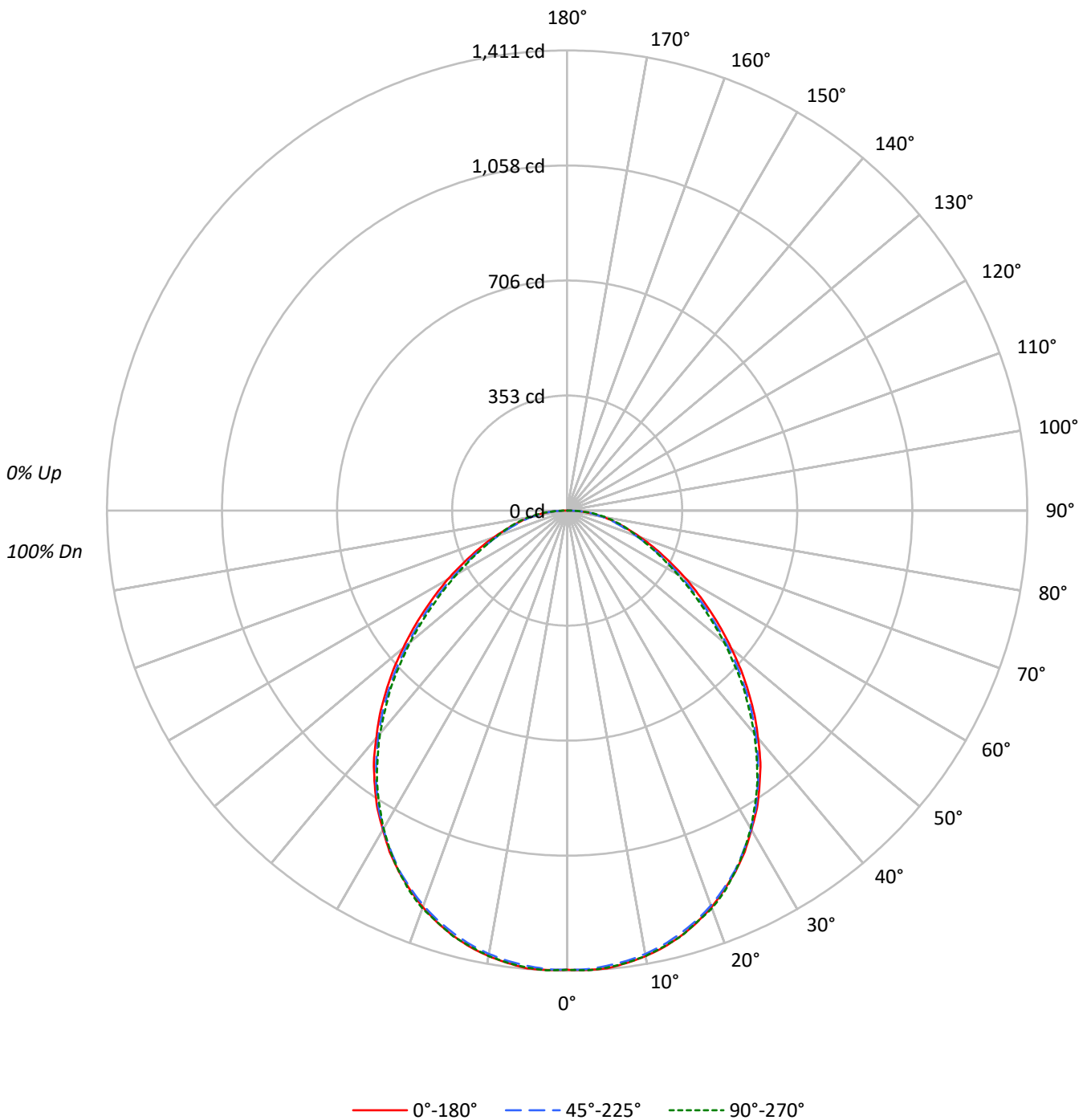
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1894	1894	1894
5°	1903	1893	1900
10°	1895	1886	1895
15°	1880	1870	1882
20°	1853	1845	1859
25°	1813	1808	1812
30°	1755	1752	1748
35°	1689	1677	1670
40°	1599	1581	1568
45°	1496	1468	1451
50°	1374	1338	1315
55°	1254	1207	1172
60°	1139	1077	1049
65°	1025	968	951
70°	939	878	902
75°	878	837	899
80°	871	855	939
85°	888	895	1024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	4.0
10°-20°	378.9	11.4
20°-30°	559.7	16.9
30°-40°	636.3	19.2
40°-50°	594.2	17.9
50°-60°	462.1	13.9
60°-70°	306.6	9.3
70°-80°	177.4	5.4
80°-90°	64.5	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°	1071.8	32.4
0°-40°	1708.1	51.6
0°-60°	2764.4	83.4
0°-90°	3313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1409	1402	1401	1404	1407	134
15°	1350	1343	1343	1342	1351	380
25°	1221	1216	1218	1215	1221	561
35°	1028	1023	1021	1013	1016	642
45°	786	780	772	762	762	606
55°	534	527	515	501	500	479
65°	322	312	304	298	299	322
75°	169	165	161	168	173	181
85°	58	56	58	66	66	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1408.0	1408.0	1408.0	1408.0	1408.0
2.5°	1410.1	1406.0	1408.0	1406.5	1411.1
5°	1409.1	1401.8	1401.3	1403.9	1407.0
7.5°	1399.2	1391.5	1393.0	1393.0	1398.2
10°	1387.3	1379.5	1380.6	1381.1	1386.8
12.5°	1371.3	1363.5	1364.0	1363.5	1369.2
15°	1350.0	1343.3	1342.8	1342.3	1351.1
17.5°	1324.1	1314.8	1317.9	1318.4	1323.1
20°	1294.1	1286.8	1288.9	1288.4	1298.2
22.5°	1258.4	1253.2	1254.7	1253.7	1263.0
25°	1221.1	1215.9	1218.0	1215.4	1220.6
27.5°	1179.1	1175.5	1173.4	1171.9	1175.5
30°	1129.9	1127.9	1127.9	1121.1	1125.3
32.5°	1083.3	1076.6	1076.6	1074.0	1071.4
35°	1028.4	1023.3	1020.7	1013.4	1016.5
37.5°	973.6	961.6	960.6	954.9	954.9
40°	910.4	903.6	900.0	893.8	892.8
42.5°	850.3	843.6	837.4	827.0	824.9
45°	786.1	779.9	771.6	761.8	762.3
47.5°	722.4	713.6	705.8	693.9	692.4
50°	656.6	650.4	639.0	628.7	628.1
52.5°	595.0	585.2	574.8	562.4	562.4
55°	534.4	526.6	514.7	501.3	499.7
57.5°	476.4	469.2	455.7	445.9	443.3
60°	423.1	412.7	400.3	392.0	389.9
62.5°	369.7	360.4	351.1	342.8	342.3
65°	322.1	312.3	304.0	298.3	298.8
67.5°	279.1	270.8	261.5	260.0	260.5
70°	238.7	229.9	223.2	226.8	229.4
72.5°	200.4	195.7	191.1	196.3	199.9
75°	168.8	164.7	161.1	168.3	173.0
77.5°	139.8	136.7	136.2	142.4	146.6
80°	112.4	108.7	110.3	117.6	121.2
82.5°	85.4	82.9	83.4	92.2	94.8
85°	57.5	56.4	58.0	65.8	66.3
87.5°	30.6	30.6	31.6	36.2	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)