

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: P293292

Luminaire Tested: **24GR-LD5-34-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293292
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-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2716.0 lumens
Efficiency: N/A
Efficacy: 115.6 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

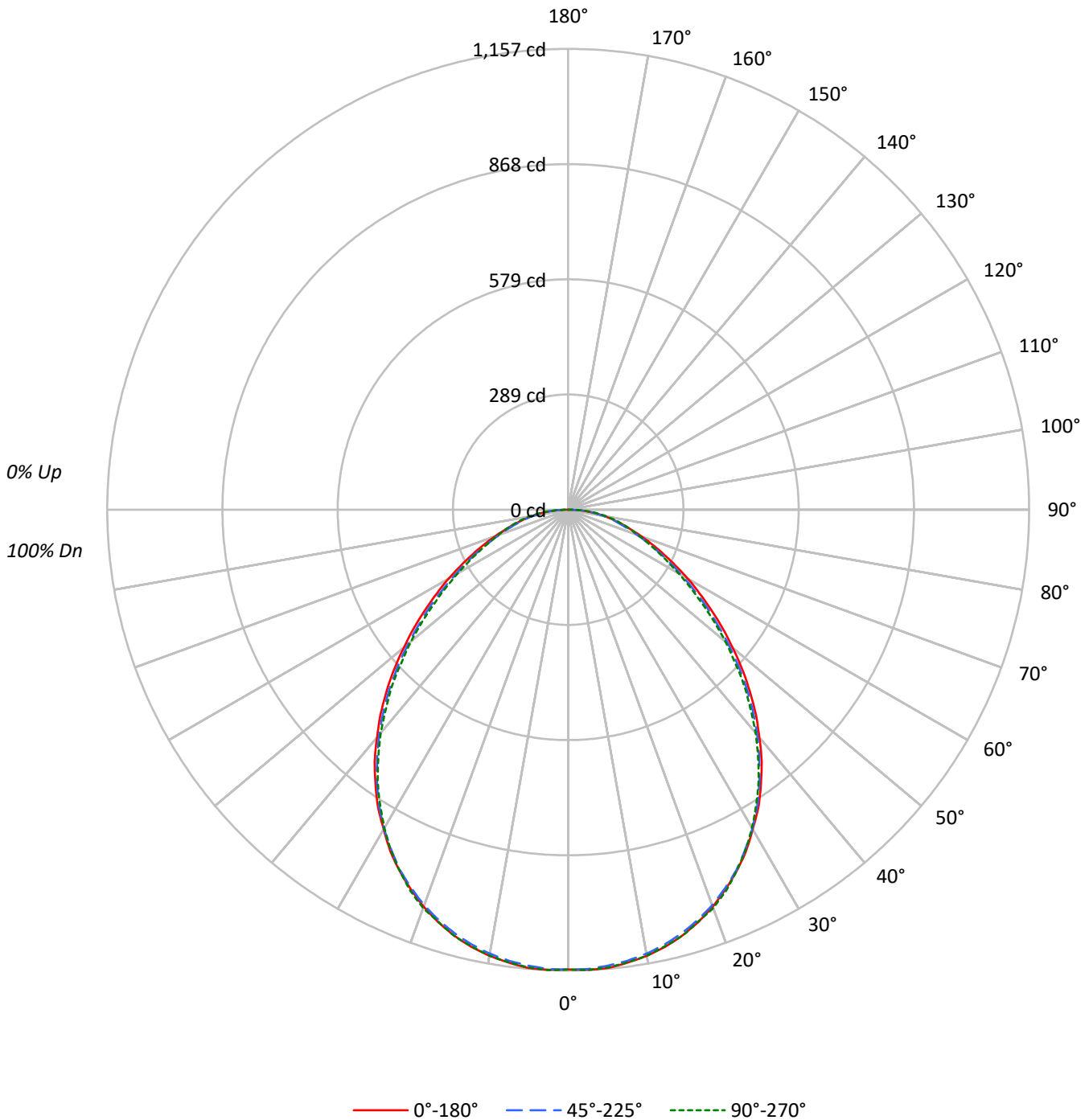
Input Watts (W): 23.499333
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	1553	1553	1553
5°	1560	1552	1558
10°	1554	1546	1553
15°	1542	1533	1543
20°	1519	1513	1524
25°	1486	1482	1485
30°	1439	1436	1433
35°	1385	1374	1369
40°	1311	1296	1286
45°	1226	1204	1189
50°	1127	1097	1078
55°	1028	990	961
60°	933	883	860
65°	841	793	780
70°	770	720	740
75°	719	686	737
80°	714	700	769
85°	727	733	838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	4.0
10°-20°	310.6	11.4
20°-30°	458.8	16.9
30°-40°	521.6	19.2
40°-50°	487.1	17.9
50°-60°	378.8	13.9
60°-70°	251.4	9.3
70°-80°	145.5	5.4
80°-90°	52.9	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°	878.7	32.4
0°-40°	1400.3	51.6
0°-60°	2266.3	83.4
0°-90°	2716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1155	1149	1149	1151	1154	110
15°	1107	1101	1101	1100	1108	312
25°	1001	997	998	996	1001	460
35°	843	839	837	831	833	526
45°	644	639	633	624	625	497
55°	438	432	422	411	410	393
65°	264	256	249	244	245	264
75°	138	135	132	138	142	148
85°	47	46	48	54	54	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.3	1154.3	1154.3	1154.3	1154.3
2.5°	1156.0	1152.6	1154.3	1153.0	1156.8
5°	1155.1	1149.2	1148.8	1150.9	1153.5
7.5°	1147.1	1140.7	1142.0	1142.0	1146.2
10°	1137.3	1131.0	1131.8	1132.2	1136.9
12.5°	1124.2	1117.8	1118.2	1117.8	1122.5
15°	1106.8	1101.2	1100.8	1100.4	1107.6
17.5°	1085.5	1077.9	1080.4	1080.9	1084.7
20°	1060.9	1055.0	1056.7	1056.2	1064.3
22.5°	1031.6	1027.4	1028.6	1027.8	1035.4
25°	1001.0	996.8	998.5	996.4	1000.6
27.5°	966.7	963.7	962.0	960.7	963.7
30°	926.3	924.6	924.6	919.1	922.5
32.5°	888.1	882.6	882.6	880.5	878.4
35°	843.1	838.9	836.8	830.8	833.4
37.5°	798.1	788.4	787.5	782.8	782.8
40°	746.3	740.8	737.8	732.7	731.9
42.5°	697.1	691.6	686.5	678.0	676.3
45°	644.4	639.3	632.6	624.5	624.9
47.5°	592.2	585.0	578.6	568.9	567.6
50°	538.3	533.2	523.9	515.4	515.0
52.5°	487.8	479.7	471.2	461.0	461.0
55°	438.1	431.7	422.0	410.9	409.7
57.5°	390.6	384.6	373.6	365.5	363.4
60°	346.8	338.4	328.2	321.4	319.7
62.5°	303.1	295.5	287.8	281.0	280.6
65°	264.1	256.0	249.2	244.5	245.0
67.5°	228.8	222.0	214.4	213.1	213.5
70°	195.7	188.5	183.0	185.9	188.1
72.5°	164.3	160.5	156.7	160.9	163.9
75°	138.4	135.0	132.0	138.0	141.8
77.5°	114.6	112.1	111.7	116.7	120.1
80°	92.1	89.2	90.4	96.4	99.3
82.5°	70.0	67.9	68.3	75.6	77.7
85°	47.1	46.3	47.5	53.9	54.3
87.5°	25.0	25.0	25.9	29.7	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)