

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: P293336

Luminaire Tested: **24GR-LD5-30-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293336
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-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2762.0 lumens
Efficiency: N/A
Efficacy: 135.6 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

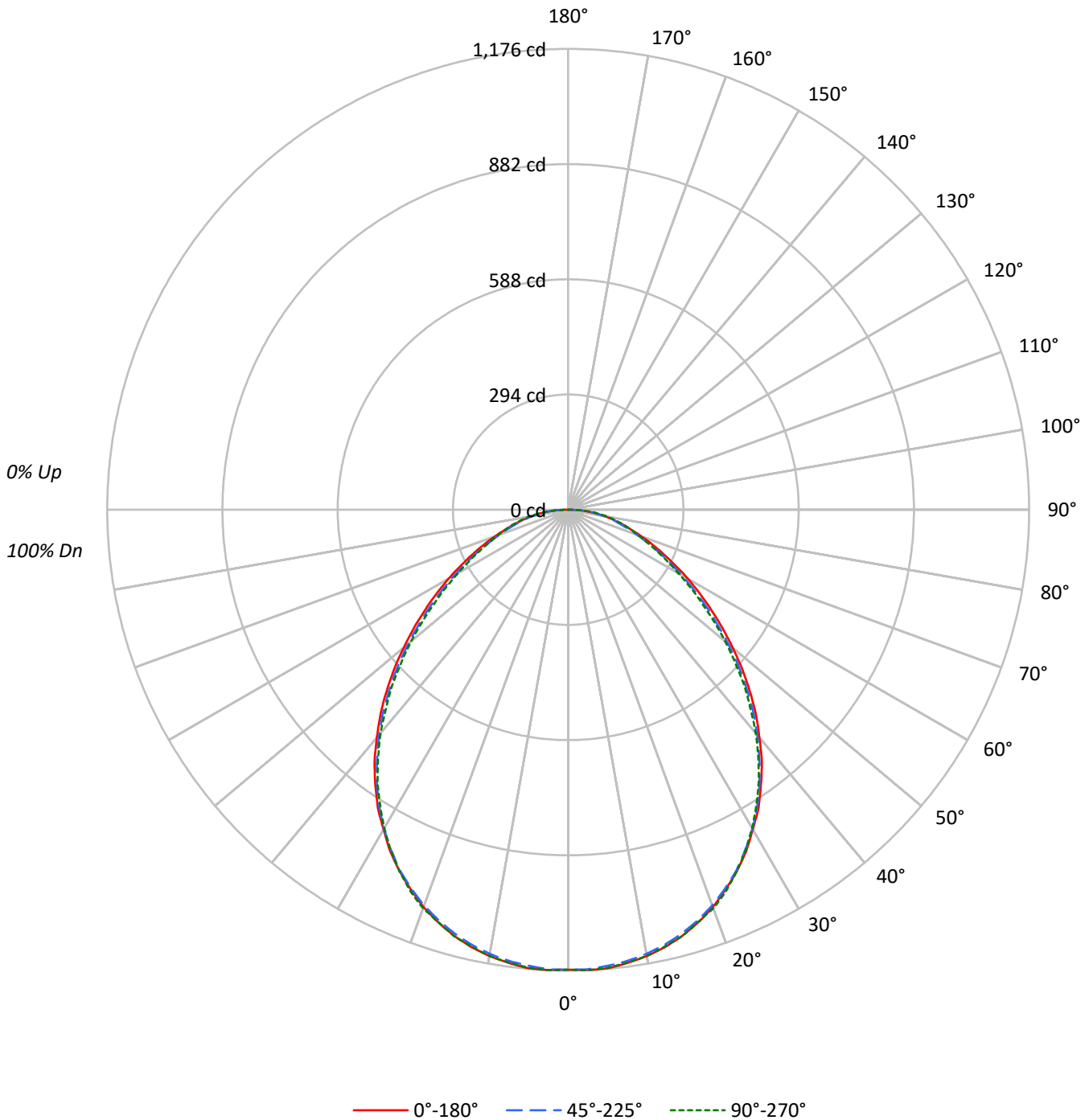
Input Watts (W): 20.367
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1579	1579	1579
5°	1587	1578	1584
10°	1580	1573	1580
15°	1568	1559	1569
20°	1545	1539	1550
25°	1511	1507	1511
30°	1464	1461	1457
35°	1408	1398	1392
40°	1333	1318	1307
45°	1247	1224	1209
50°	1146	1115	1096
55°	1045	1007	977
60°	949	898	875
65°	855	807	793
70°	783	732	753
75°	731	698	750
80°	726	713	783
85°	739	747	854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	4.0
10°-20°	315.8	11.4
20°-30°	466.6	16.9
30°-40°	530.5	19.2
40°-50°	495.4	17.9
50°-60°	385.2	13.9
60°-70°	255.6	9.3
70°-80°	147.9	5.4
80°-90°	53.8	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°	893.5	32.4
0°-40°	1424.0	51.6
0°-60°	2304.6	83.4
0°-90°	2762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1175	1169	1168	1170	1173	111
15°	1126	1120	1120	1119	1126	317
25°	1018	1014	1015	1013	1018	468
35°	857	853	851	845	848	535
45°	655	650	643	635	636	505
55°	446	439	429	418	417	400
65°	268	260	253	249	249	268
75°	141	137	134	140	144	151
85°	48	47	48	55	55	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.8	1173.8	1173.8	1173.8	1173.8
2.5°	1175.6	1172.1	1173.8	1172.6	1176.4
5°	1174.7	1168.7	1168.2	1170.4	1173.0
7.5°	1166.5	1160.0	1161.3	1161.3	1165.6
10°	1156.6	1150.1	1151.0	1151.4	1156.1
12.5°	1143.2	1136.7	1137.2	1136.7	1141.5
15°	1125.5	1119.9	1119.5	1119.0	1126.4
17.5°	1103.9	1096.1	1098.7	1099.2	1103.0
20°	1078.9	1072.8	1074.6	1074.1	1082.3
22.5°	1049.1	1044.8	1046.1	1045.2	1053.0
25°	1018.0	1013.7	1015.4	1013.2	1017.6
27.5°	983.0	980.0	978.3	977.0	980.0
30°	942.0	940.3	940.3	934.7	938.1
32.5°	903.2	897.5	897.5	895.4	893.2
35°	857.4	853.1	850.9	844.9	847.5
37.5°	811.6	801.7	800.8	796.1	796.1
40°	759.0	753.4	750.3	745.2	744.3
42.5°	708.9	703.3	698.1	689.5	687.7
45°	655.4	650.2	643.3	635.1	635.5
47.5°	602.3	594.9	588.4	578.5	577.2
50°	547.4	542.2	532.7	524.1	523.7
52.5°	496.0	487.8	479.2	468.8	468.8
55°	445.5	439.1	429.1	417.9	416.6
57.5°	397.2	391.1	379.9	371.7	369.6
60°	352.7	344.1	333.7	326.8	325.1
62.5°	308.2	300.5	292.7	285.8	285.4
65°	268.5	260.3	253.4	248.7	249.1
67.5°	232.7	225.8	218.0	216.7	217.2
70°	199.0	191.7	186.1	189.1	191.3
72.5°	167.1	163.2	159.3	163.6	166.6
75°	140.7	137.3	134.3	140.3	144.2
77.5°	116.6	114.0	113.5	118.7	122.2
80°	93.7	90.7	92.0	98.0	101.0
82.5°	71.2	69.1	69.5	76.8	79.0
85°	47.9	47.1	48.4	54.8	55.3
87.5°	25.5	25.5	26.3	30.2	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)