

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: P291152

Luminaire Tested: **14GR-LD5-24-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A125-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2564.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

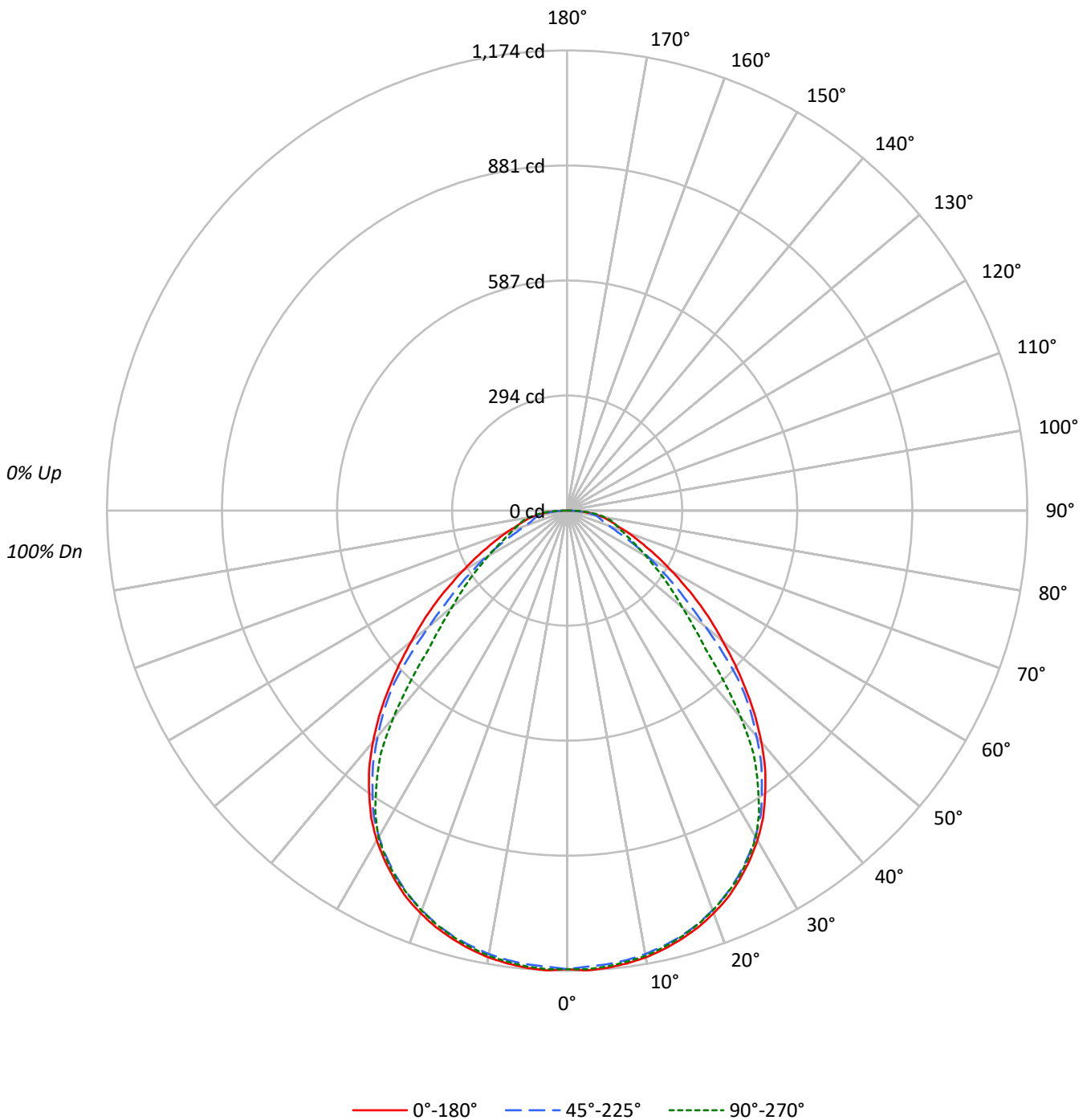
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3148	3148	3148
5°	3164	3140	3154
10°	3163	3139	3152
15°	3152	3132	3137
20°	3131	3107	3111
25°	3089	3061	3070
30°	3018	2985	2992
35°	2894	2845	2784
40°	2706	2639	2422
45°	2449	2379	1899
50°	2166	1925	1601
55°	1917	1582	1412
60°	1655	1309	1252
65°	1439	1042	1151
70°	1301	894	1151
75°	1250	934	1286
80°	1392	1189	1503
85°	1470	1266	1800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	4.3
10°-20°	318.1	12.4
20°-30°	476.0	18.6
30°-40°	538.8	21.0
40°-50°	459.0	17.9
50°-60°	310.7	12.1
60°-70°	185.5	7.2
70°-80°	115.9	4.5
80°-90°	49.0	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°	905.0	35.3
0°-40°	1443.9	56.3
0°-60°	2213.6	86.3
0°-90°	2564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1171	1168	1162	1169	1168	111
15°	1131	1127	1124	1131	1126	319
25°	1040	1037	1031	1036	1034	478
35°	881	876	866	857	848	549
45°	644	645	625	533	499	496
55°	409	386	337	301	301	365
65°	226	189	164	175	181	228
75°	120	108	90	118	124	130
85°	48	44	41	52	58	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.0	1170.0	1170.0	1170.0	1170.0
2.5°	1174.2	1171.2	1164.7	1172.4	1171.2
5°	1171.2	1168.2	1162.3	1169.4	1167.7
7.5°	1165.3	1162.3	1156.9	1164.1	1161.1
10°	1157.5	1154.0	1148.6	1156.4	1153.4
12.5°	1145.6	1142.1	1137.3	1145.1	1140.9
15°	1131.4	1127.2	1124.2	1131.4	1126.0
17.5°	1114.1	1110.6	1106.4	1113.5	1107.6
20°	1093.3	1090.3	1085.0	1089.1	1086.2
22.5°	1069.5	1065.3	1060.0	1064.7	1060.6
25°	1040.4	1037.4	1030.8	1035.6	1033.8
27.5°	1007.0	1005.3	997.5	1003.5	1000.5
30°	971.4	966.6	960.7	962.4	963.0
32.5°	930.3	924.4	919.6	915.4	911.3
35°	880.9	875.6	866.1	857.2	847.6
37.5°	829.8	822.7	813.1	793.5	781.6
40°	770.3	766.7	751.3	723.9	689.4
42.5°	709.6	706.1	692.4	631.1	593.6
45°	643.6	645.4	625.2	533.0	499.1
47.5°	580.6	585.3	541.3	455.0	437.2
50°	517.5	522.9	459.8	393.2	382.5
52.5°	462.2	458.0	392.0	345.0	340.2
55°	408.6	386.0	337.3	301.0	301.0
57.5°	353.9	321.8	286.7	263.5	263.5
60°	307.5	267.7	243.3	227.8	232.6
62.5°	264.7	222.5	201.6	198.7	204.6
65°	226.0	188.6	163.6	174.9	180.8
67.5°	194.5	161.2	134.4	158.2	161.8
70°	165.4	140.4	113.6	145.7	146.3
72.5°	138.6	123.7	97.6	132.1	134.4
75°	120.2	107.7	89.8	117.8	123.7
77.5°	105.3	92.2	82.7	101.7	113.0
80°	89.8	75.5	76.7	85.7	97.0
82.5°	69.0	58.3	60.7	70.2	79.1
85°	47.6	44.0	41.0	51.8	58.3
87.5°	25.6	23.8	20.8	29.1	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)