

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: P293555

Luminaire Tested: **24GR-LD5-42-A-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3605.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

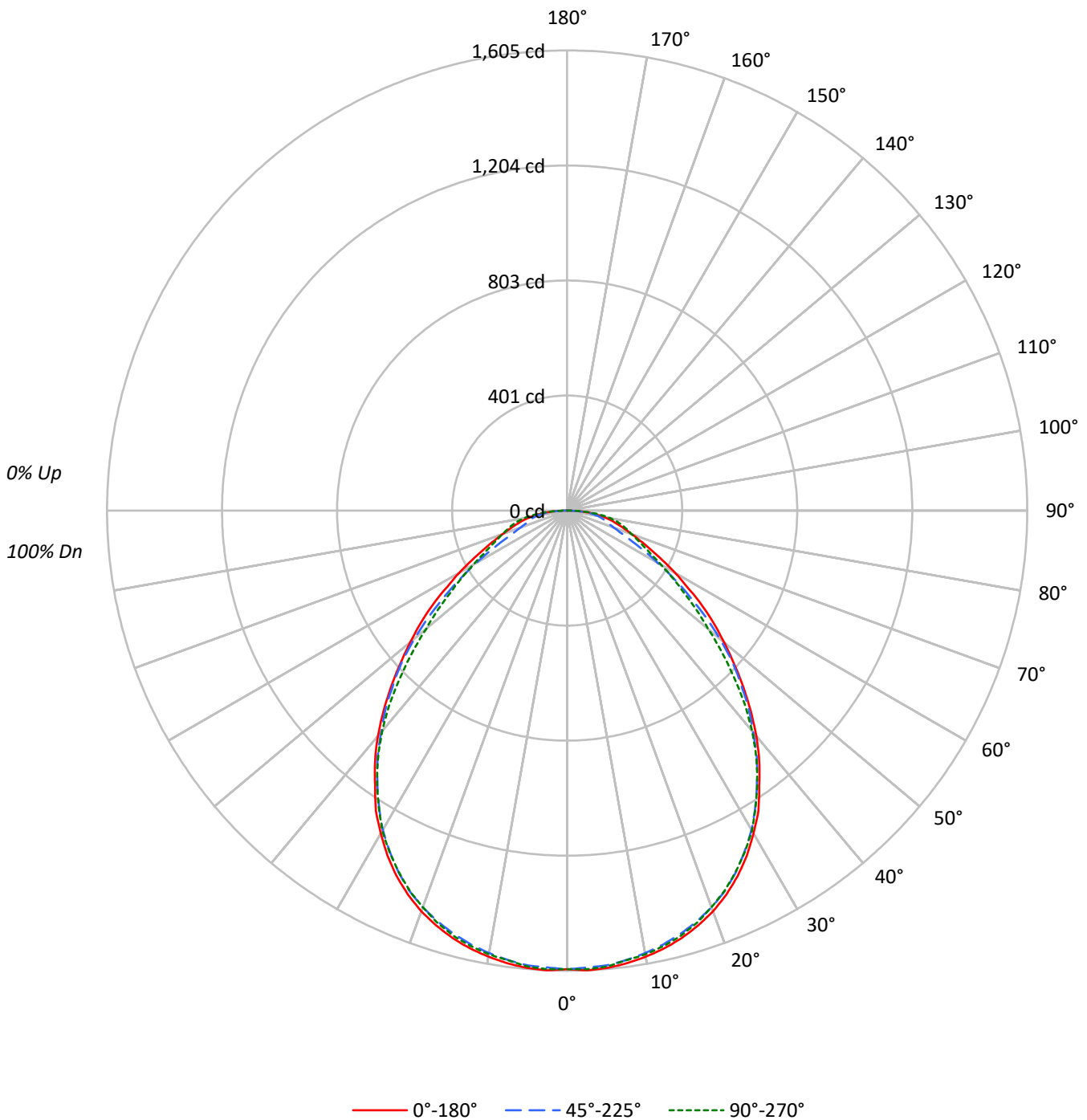
Input Watts (W): 28.524867
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2152	2152	2152
5°	2163	2151	2156
10°	2159	2141	2147
15°	2150	2129	2138
20°	2130	2108	2108
25°	2089	2066	2064
30°	2020	1999	2003
35°	1918	1896	1899
40°	1804	1773	1762
45°	1653	1631	1566
50°	1495	1454	1344
55°	1342	1221	1159
60°	1175	983	1019
65°	1025	773	938
70°	938	675	938
75°	938	718	1033
80°	1018	846	1178
85°	1118	954	1264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	4.2
10°-20°	432.3	12.0
20°-30°	641.0	17.8
30°-40°	723.1	20.1
40°-50°	654.9	18.2
50°-60°	472.4	13.1
60°-70°	282.1	7.8
70°-80°	174.4	4.8
80°-90°	73.4	2.0
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°	1224.7	34.0
0°-40°	1947.8	54.0
0°-60°	3075.1	85.3
0°-90°	3605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1601	1599	1592	1591	1596	152
15°	1544	1534	1528	1529	1535	435
25°	1407	1399	1392	1387	1391	646
35°	1168	1166	1154	1155	1156	731
45°	869	863	857	836	823	670
55°	572	554	521	495	494	511
65°	322	284	243	276	295	324
75°	180	156	138	172	199	193
85°	72	64	62	81	82	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1599.5	1599.5	1599.5	1599.5	1599.5
2.5°	1605.1	1600.6	1595.0	1598.4	1601.2
5°	1601.2	1598.9	1592.3	1590.6	1596.2
7.5°	1592.8	1587.2	1581.1	1583.9	1581.7
10°	1580.0	1575.0	1567.2	1567.8	1571.7
12.5°	1564.4	1558.3	1549.9	1552.2	1555.5
15°	1543.8	1534.3	1528.2	1528.8	1534.9
17.5°	1517.6	1510.4	1502.6	1504.3	1507.0
20°	1487.6	1483.7	1472.5	1469.2	1472.0
22.5°	1449.7	1442.4	1436.3	1434.6	1435.2
25°	1406.8	1399.0	1391.8	1386.8	1390.6
27.5°	1356.7	1350.0	1340.5	1338.9	1342.2
30°	1299.9	1294.9	1286.5	1284.3	1289.3
32.5°	1241.9	1233.6	1221.9	1221.9	1223.0
35°	1167.9	1166.2	1154.5	1155.1	1156.2
37.5°	1101.0	1093.2	1086.6	1079.9	1083.2
40°	1027.0	1018.1	1009.2	1004.7	1003.0
42.5°	947.3	940.7	936.8	920.6	916.7
45°	868.8	863.2	857.1	835.9	823.1
47.5°	788.6	787.5	782.5	745.2	732.4
50°	714.0	712.3	694.5	654.9	642.1
52.5°	643.3	632.1	608.7	569.7	567.5
55°	572.0	554.1	520.7	495.1	494.0
57.5°	496.8	475.6	441.6	427.7	435.0
60°	436.6	404.3	365.3	367.0	378.7
62.5°	374.3	338.1	299.6	316.3	330.3
65°	321.9	283.5	242.8	275.7	294.6
67.5°	276.2	240.6	201.6	245.6	264.0
70°	238.4	209.4	171.5	217.8	238.4
72.5°	208.3	181.6	152.0	195.5	219.4
75°	180.4	156.5	138.1	172.1	198.8
77.5°	156.5	133.1	124.8	152.0	178.2
80°	131.4	110.3	109.2	132.5	152.0
82.5°	102.5	88.0	88.0	110.8	122.5
85°	72.4	63.5	61.8	80.8	81.9
87.5°	37.3	35.6	32.3	42.3	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)