

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: P296463

Luminaire Tested: **22RLN-LD5-25-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-25-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2095.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

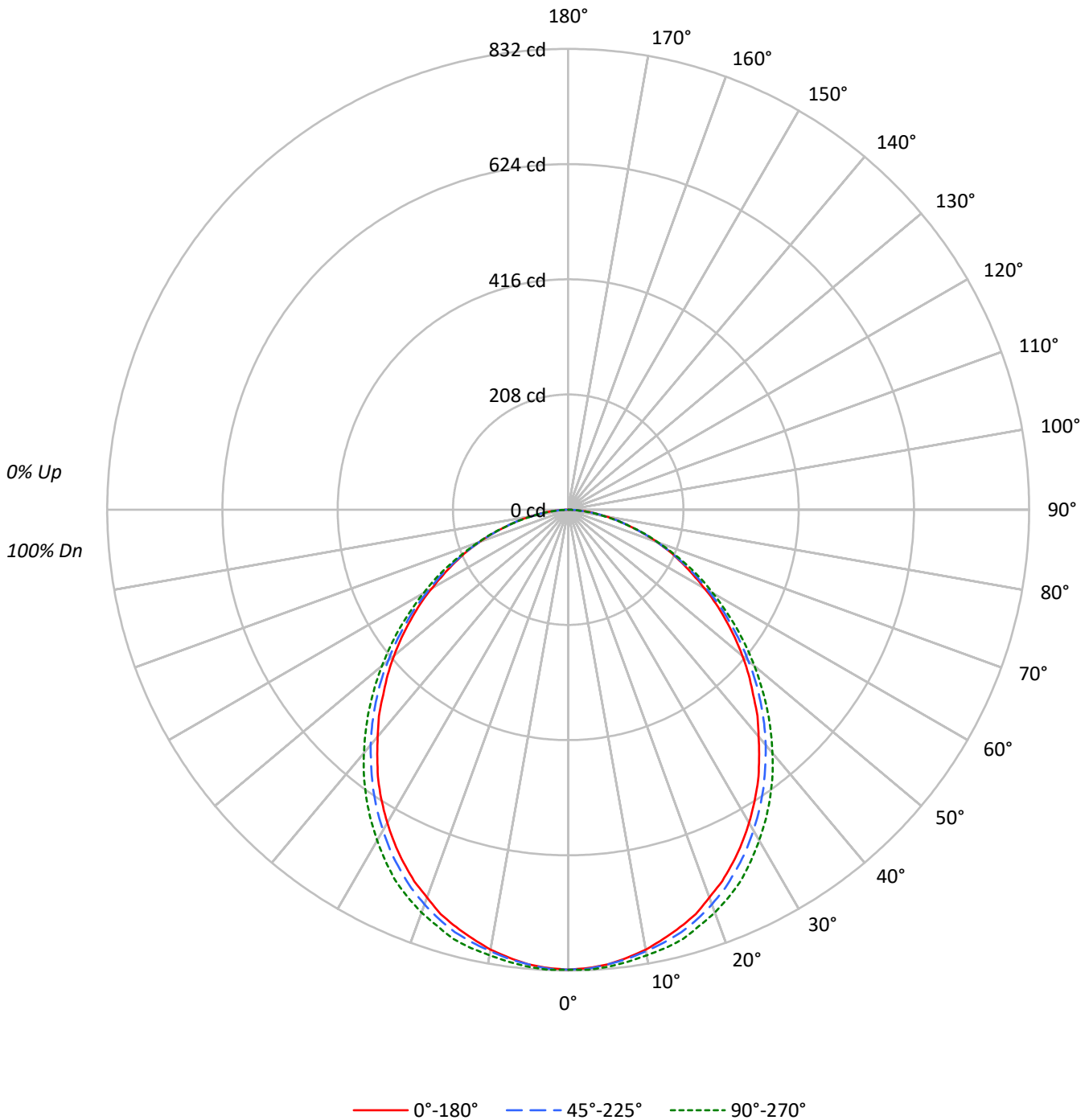
Input Watts (W): 19.251
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2235	2235	2235
5°	2226	2226	2237
10°	2203	2212	2232
15°	2174	2200	2235
20°	2133	2172	2216
25°	2087	2131	2193
30°	2028	2077	2142
35°	1963	2018	2086
40°	1879	1949	2015
45°	1797	1868	1932
50°	1719	1775	1837
55°	1627	1676	1735
60°	1529	1568	1625
65°	1436	1463	1510
70°	1340	1340	1364
75°	1195	1195	1195
80°	1052	1020	1020
85°	840	806	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.7
10°-20°	222.7	10.6
20°-30°	330.7	15.8
30°-40°	383.9	18.3
40°-50°	378.0	18.0
50°-60°	319.9	15.3
60°-70°	228.1	10.9
70°-80°	122.6	5.9
80°-90°	30.9	1.5
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°	631.7	30.2
0°-40°	1015.6	48.5
0°-60°	1713.4	81.8
0°-90°	2095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	824	824	824	827	828	78
15°	780	782	790	797	802	220
25°	703	705	718	731	738	324
35°	598	598	614	629	635	373
45°	472	475	491	502	508	365
55°	347	348	357	367	370	311
65°	226	226	230	234	237	224
75°	115	114	115	115	115	123
85°	27	26	26	24	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.4	830.4	830.4	830.4	830.4
2.5°	828.3	828.3	829.4	830.4	831.5
5°	824.1	824.1	824.1	827.3	828.3
7.5°	815.8	816.8	817.9	821.0	823.1
10°	806.4	807.4	809.5	814.7	816.8
12.5°	793.9	797.0	800.1	807.4	810.6
15°	780.3	782.4	789.7	797.0	802.2
17.5°	765.7	766.7	775.1	785.5	787.6
20°	744.8	747.9	758.3	768.8	774.0
22.5°	726.0	728.0	739.5	753.1	757.3
25°	703.0	705.1	717.6	731.2	738.5
27.5°	679.0	681.0	694.6	709.2	714.5
30°	652.8	654.9	668.5	684.2	689.4
32.5°	625.7	627.8	642.4	656.0	663.3
35°	597.5	598.5	614.2	628.8	635.1
37.5°	566.1	569.3	583.9	598.5	605.8
40°	534.8	537.9	554.7	568.2	573.5
42.5°	505.6	509.7	523.3	535.9	541.1
45°	472.1	475.3	490.9	502.4	507.6
47.5°	441.8	445.0	458.6	470.0	473.2
50°	410.5	412.6	424.1	434.5	438.7
52.5°	379.2	380.2	390.7	401.1	404.2
55°	346.8	347.8	357.2	366.6	369.8
57.5°	316.5	316.5	324.9	332.2	335.3
60°	284.1	284.1	291.4	298.7	301.9
62.5°	253.8	253.8	261.1	266.4	270.5
65°	225.6	225.6	229.8	234.0	237.1
67.5°	198.5	195.3	199.5	204.7	203.7
70°	170.3	167.1	170.3	172.3	173.4
72.5°	142.1	140.0	142.1	143.1	145.2
75°	114.9	113.9	114.9	114.9	114.9
77.5°	91.9	88.8	90.9	89.8	88.8
80°	67.9	66.9	65.8	64.8	65.8
82.5°	47.0	46.0	46.0	43.9	43.9
85°	27.2	26.1	26.1	24.0	24.0
87.5°	10.4	10.4	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)