

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: P296695

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2942.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

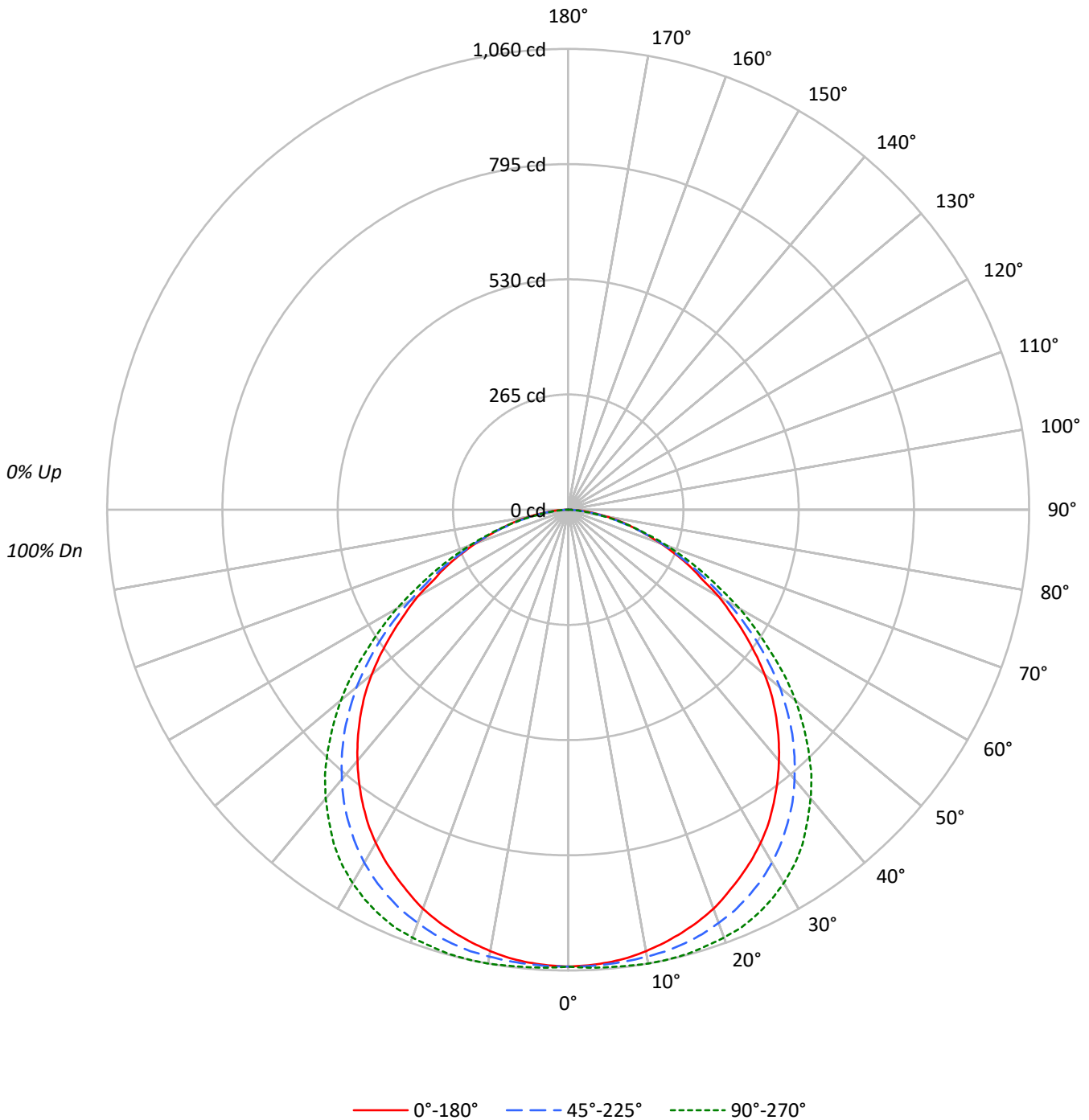
Input Watts (W): 32.643
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	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	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2828	2828	2828
5°	2824	2834	2853
10°	2817	2852	2896
15°	2807	2878	2948
20°	2798	2896	2999
25°	2773	2912	3051
30°	2751	2913	3081
35°	2708	2891	3086
40°	2649	2845	3047
45°	2575	2774	2972
50°	2471	2659	2855
55°	2313	2490	2659
60°	2150	2266	2450
65°	1971	2039	2177
70°	1784	1812	1897
75°	1572	1535	1591
80°	1367	1255	1199
85°	1112	834	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.4
10°-20°	291.8	9.9
20°-30°	452.1	15.4
30°-40°	550.2	18.7
40°-50°	560.4	19.0
50°-60°	472.6	16.1
60°-70°	319.7	10.9
70°-80°	159.8	5.4
80°-90°	35.5	1.2
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°	843.9	28.7
0°-40°	1394.1	47.4
0°-60°	2427.1	82.5
0°-90°	2942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1046	1047	1049	1054	1056	99
15°	1008	1015	1033	1051	1058	284
25°	934	948	981	1013	1028	431
35°	824	842	880	921	939	515
45°	677	689	729	767	781	521
55°	493	500	531	556	567	441
65°	310	304	320	335	342	306
75°	151	146	148	149	153	162
85°	36	31	27	23	23	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.9	1050.9	1050.9	1050.9	1050.9
2.5°	1049.1	1049.1	1050.9	1052.7	1054.5
5°	1045.5	1047.3	1049.1	1054.5	1056.3
7.5°	1040.1	1041.9	1047.3	1054.5	1058.1
10°	1031.1	1034.7	1043.7	1054.5	1059.9
12.5°	1020.3	1025.7	1040.1	1052.7	1059.9
15°	1007.7	1014.9	1032.9	1050.9	1058.1
17.5°	993.3	1002.3	1023.9	1043.7	1052.7
20°	977.1	987.9	1011.3	1036.5	1047.3
22.5°	955.5	969.9	998.7	1027.5	1040.1
25°	933.9	948.3	980.7	1013.1	1027.5
27.5°	910.5	926.7	960.9	996.9	1011.3
30°	885.3	899.7	937.5	975.3	991.5
32.5°	856.5	870.9	910.5	950.1	968.1
35°	824.2	842.2	879.9	921.3	939.3
37.5°	790.0	806.2	847.6	887.1	903.3
40°	754.0	770.2	809.8	851.2	867.3
42.5°	716.2	732.4	770.2	809.8	827.8
45°	676.6	689.2	728.8	766.6	781.0
47.5°	635.2	644.2	682.0	718.0	732.4
50°	590.2	599.2	635.2	667.6	682.0
52.5°	541.6	548.8	583.0	611.8	628.0
55°	493.1	500.3	530.8	556.0	566.8
57.5°	444.5	448.1	475.1	500.3	511.1
60°	399.5	399.5	421.1	440.9	455.3
62.5°	347.3	352.7	368.9	388.7	394.1
65°	309.5	304.1	320.3	334.7	341.9
67.5°	266.3	262.7	273.5	286.1	289.7
70°	226.7	221.3	230.3	237.5	241.1
72.5°	185.3	183.5	187.1	192.5	194.3
75°	151.2	145.8	147.6	149.4	153.0
77.5°	120.6	111.6	113.4	111.6	113.4
80°	88.2	81.0	81.0	79.2	77.4
82.5°	59.4	55.8	52.2	48.6	46.8
85°	36.0	30.6	27.0	23.4	23.4
87.5°	14.4	10.8	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)