

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: P296699

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296699
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3082.0 lumens
Efficiency: N/A
Efficacy: 91.8 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

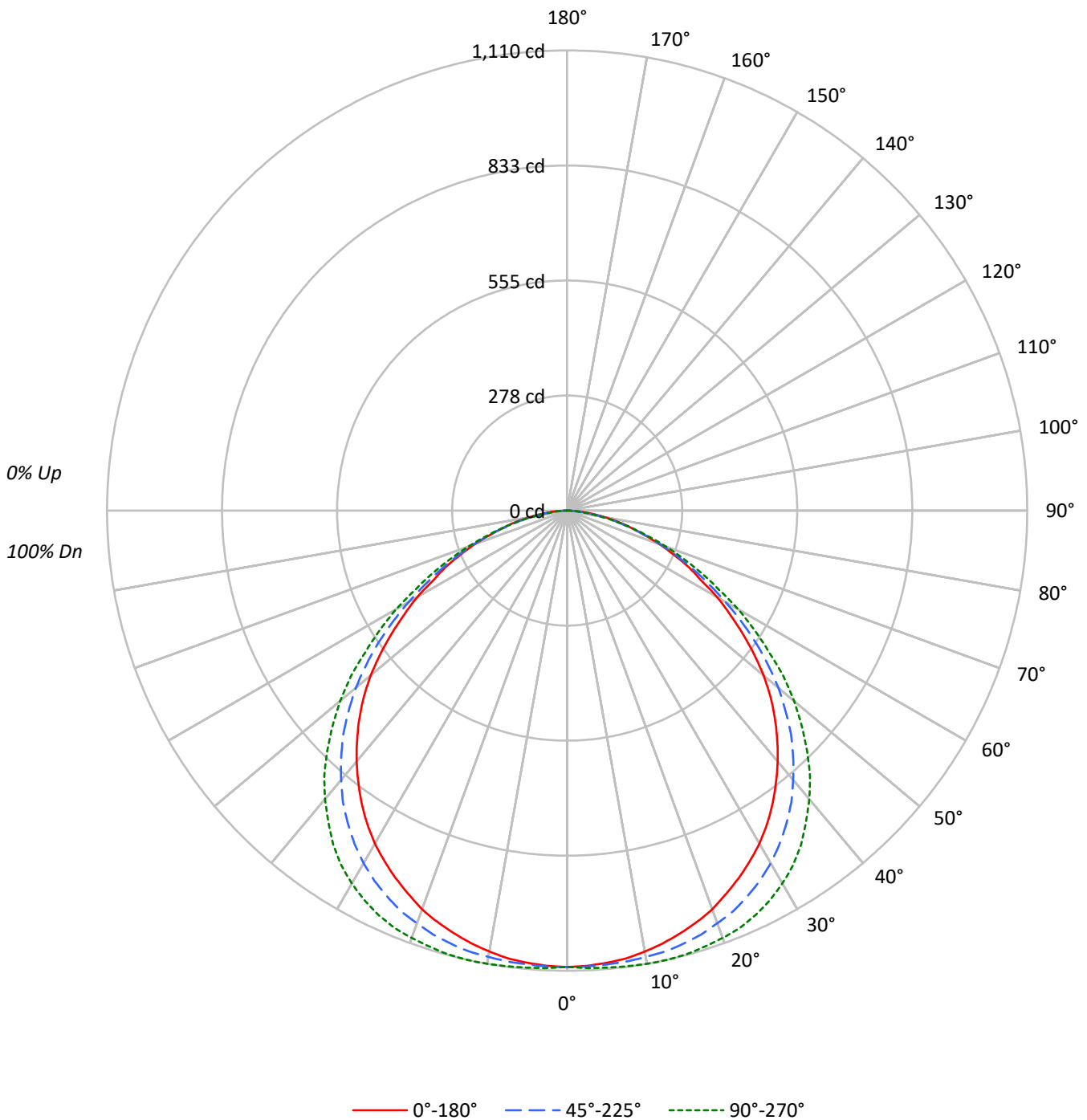
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2962	2962	2962
5°	2958	2969	2989
10°	2952	2988	3034
15°	2941	3014	3088
20°	2931	3034	3142
25°	2905	3051	3196
30°	2882	3052	3228
35°	2836	3028	3233
40°	2775	2980	3192
45°	2697	2906	3113
50°	2588	2786	2991
55°	2423	2609	2786
60°	2252	2374	2567
65°	2064	2136	2281
70°	1869	1899	1987
75°	1646	1607	1666
80°	1432	1314	1257
85°	1164	874	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.4
10°-20°	305.7	9.9
20°-30°	473.6	15.4
30°-40°	576.4	18.7
40°-50°	587.0	19.0
50°-60°	495.1	16.1
60°-70°	334.9	10.9
70°-80°	167.4	5.4
80°-90°	37.2	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°	884.1	28.7
0°-40°	1460.5	47.4
0°-60°	2542.6	82.5
0°-90°	3082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1095	1097	1099	1105	1107	104
15°	1056	1063	1082	1101	1108	298
25°	978	993	1027	1061	1076	451
35°	863	882	922	965	984	540
45°	709	722	764	803	818	546
55°	516	524	556	582	594	462
65°	324	319	336	351	358	320
75°	158	153	155	156	160	170
85°	38	32	28	24	24	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1099.0	1099.0	1100.9	1102.8	1104.7
5°	1095.2	1097.1	1099.0	1104.7	1106.6
7.5°	1089.6	1091.5	1097.1	1104.7	1108.4
10°	1080.2	1083.9	1093.4	1104.7	1110.3
12.5°	1068.9	1074.5	1089.6	1102.8	1110.3
15°	1055.7	1063.2	1082.0	1100.9	1108.4
17.5°	1040.6	1050.0	1072.6	1093.4	1102.8
20°	1023.6	1034.9	1059.4	1085.8	1097.1
22.5°	1001.0	1016.1	1046.2	1076.4	1089.6
25°	978.4	993.4	1027.4	1061.3	1076.4
27.5°	953.9	970.8	1006.6	1044.3	1059.4
30°	927.5	942.6	982.1	1021.7	1038.7
32.5°	897.3	912.4	953.9	995.3	1014.2
35°	863.4	882.2	921.8	965.2	984.0
37.5°	827.6	844.5	887.9	929.4	946.3
40°	789.9	806.8	848.3	891.7	908.6
42.5°	750.3	767.2	806.8	848.3	867.1
45°	708.8	722.0	763.5	803.1	818.1
47.5°	665.4	674.9	714.5	752.2	767.2
50°	618.3	627.7	665.4	699.4	714.5
52.5°	567.4	575.0	610.8	640.9	657.9
55°	516.5	524.1	556.1	582.5	593.8
57.5°	465.6	469.4	497.7	524.1	535.4
60°	418.5	418.5	441.1	461.9	476.9
62.5°	363.8	369.5	386.4	407.2	412.8
65°	324.2	318.6	335.5	350.6	358.2
67.5°	279.0	275.2	286.5	299.7	303.5
70°	237.5	231.9	241.3	248.8	252.6
72.5°	194.2	192.3	196.1	201.7	203.6
75°	158.3	152.7	154.6	156.5	160.2
77.5°	126.3	116.9	118.8	116.9	118.8
80°	92.4	84.8	84.8	82.9	81.1
82.5°	62.2	58.4	54.7	50.9	49.0
85°	37.7	32.0	28.3	24.5	24.5
87.5°	15.1	11.3	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)