

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: P296657

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296657
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-LD5-20-RDP-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1392.0 lumens
Efficiency: N/A
Efficacy: 90.2 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

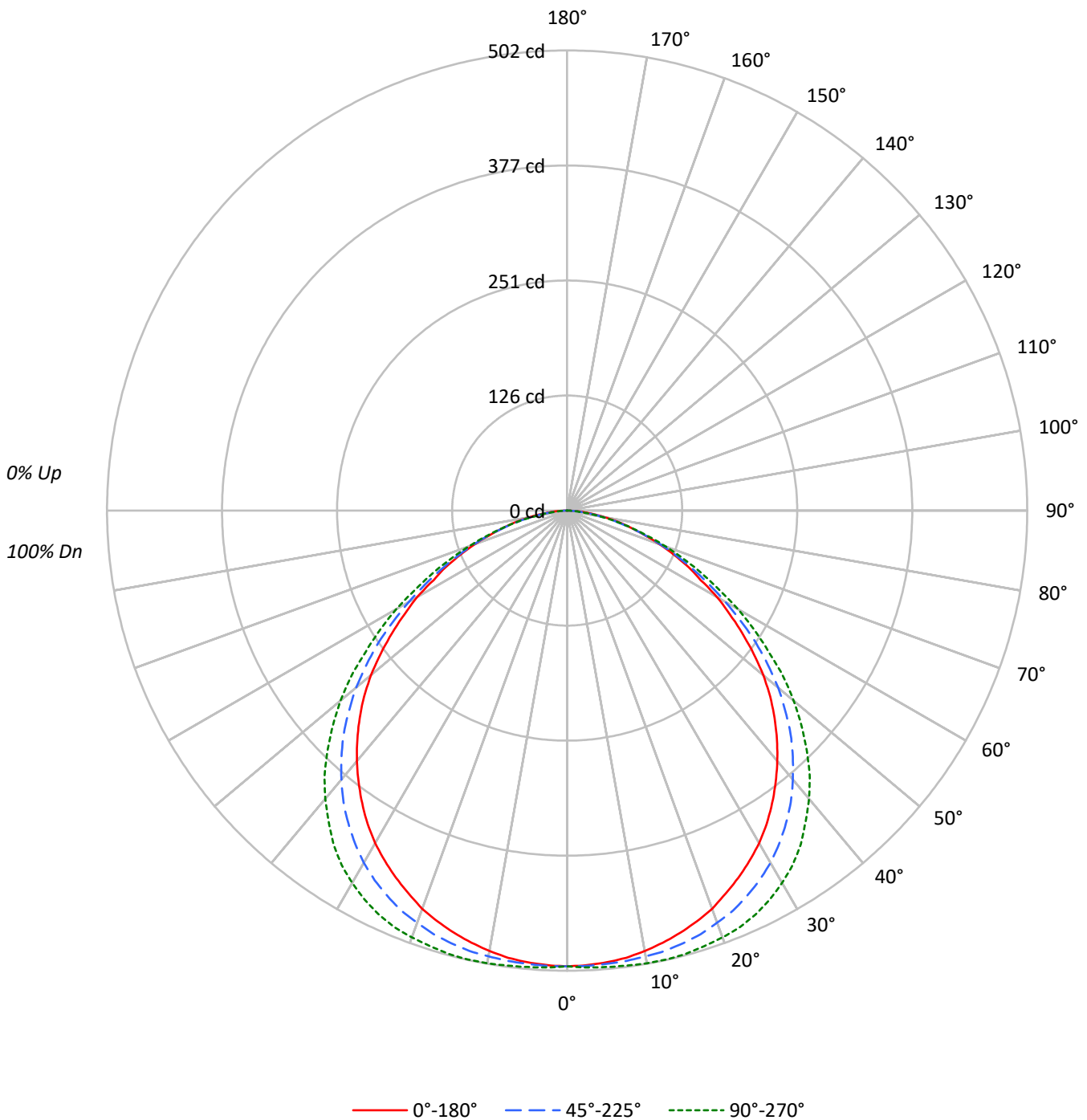
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1338	1338	1338
5°	1336	1341	1350
10°	1333	1349	1370
15°	1328	1361	1395
20°	1324	1370	1419
25°	1312	1378	1444
30°	1302	1378	1458
35°	1281	1368	1460
40°	1253	1346	1442
45°	1218	1312	1406
50°	1169	1258	1351
55°	1095	1179	1258
60°	1017	1072	1159
65°	932	965	1030
70°	844	858	898
75°	743	726	753
80°	646	594	567
85°	525	395	343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	3.4
10°-20°	138.1	9.9
20°-30°	213.9	15.4
30°-40°	260.3	18.7
40°-50°	265.1	19.0
50°-60°	223.6	16.1
60°-70°	151.3	10.9
70°-80°	75.6	5.4
80°-90°	16.8	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°	399.3	28.7
0°-40°	659.6	47.4
0°-60°	1148.3	82.5
0°-90°	1392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	497	497	497	497	497	
5°	495	496	496	499	500	47
15°	477	480	489	497	501	135
25°	442	449	464	479	486	204
35°	390	398	416	436	444	244
45°	320	326	345	363	370	247
55°	233	237	251	263	268	209
65°	146	144	152	158	162	145
75°	72	69	70	71	72	77
85°	17	14	13	11	11	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	497.2	497.2	497.2	497.2	497.2
2.5°	496.4	496.4	497.2	498.1	498.9
5°	494.7	495.5	496.4	498.9	499.8
7.5°	492.1	493.0	495.5	498.9	500.6
10°	487.9	489.6	493.8	498.9	501.5
12.5°	482.8	485.3	492.1	498.1	501.5
15°	476.8	480.2	488.7	497.2	500.6
17.5°	470.0	474.2	484.5	493.8	498.1
20°	462.3	467.4	478.5	490.4	495.5
22.5°	452.1	458.9	472.5	486.2	492.1
25°	441.9	448.7	464.0	479.3	486.2
27.5°	430.8	438.5	454.7	471.7	478.5
30°	418.9	425.7	443.6	461.5	469.1
32.5°	405.3	412.1	430.8	449.5	458.1
35°	389.9	398.5	416.3	435.9	444.4
37.5°	373.8	381.4	401.0	419.7	427.4
40°	356.7	364.4	383.1	402.7	410.4
42.5°	338.9	346.5	364.4	383.1	391.7
45°	320.1	326.1	344.8	362.7	369.5
47.5°	300.5	304.8	322.7	339.7	346.5
50°	279.3	283.5	300.5	315.9	322.7
52.5°	256.3	259.7	275.9	289.5	297.1
55°	233.3	236.7	251.2	263.1	268.2
57.5°	210.3	212.0	224.8	236.7	241.8
60°	189.0	189.0	199.2	208.6	215.4
62.5°	164.3	166.9	174.5	183.9	186.5
65°	146.4	143.9	151.6	158.4	161.8
67.5°	126.0	124.3	129.4	135.4	137.1
70°	107.3	104.7	109.0	112.4	114.1
72.5°	87.7	86.8	88.5	91.1	92.0
75°	71.5	69.0	69.8	70.7	72.4
77.5°	57.0	52.8	53.6	52.8	53.6
80°	41.7	38.3	38.3	37.5	36.6
82.5°	28.1	26.4	24.7	23.0	22.1
85°	17.0	14.5	12.8	11.1	11.1
87.5°	6.8	5.1	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)