

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: P296674

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296674
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-LD5-31-RDP-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2078.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

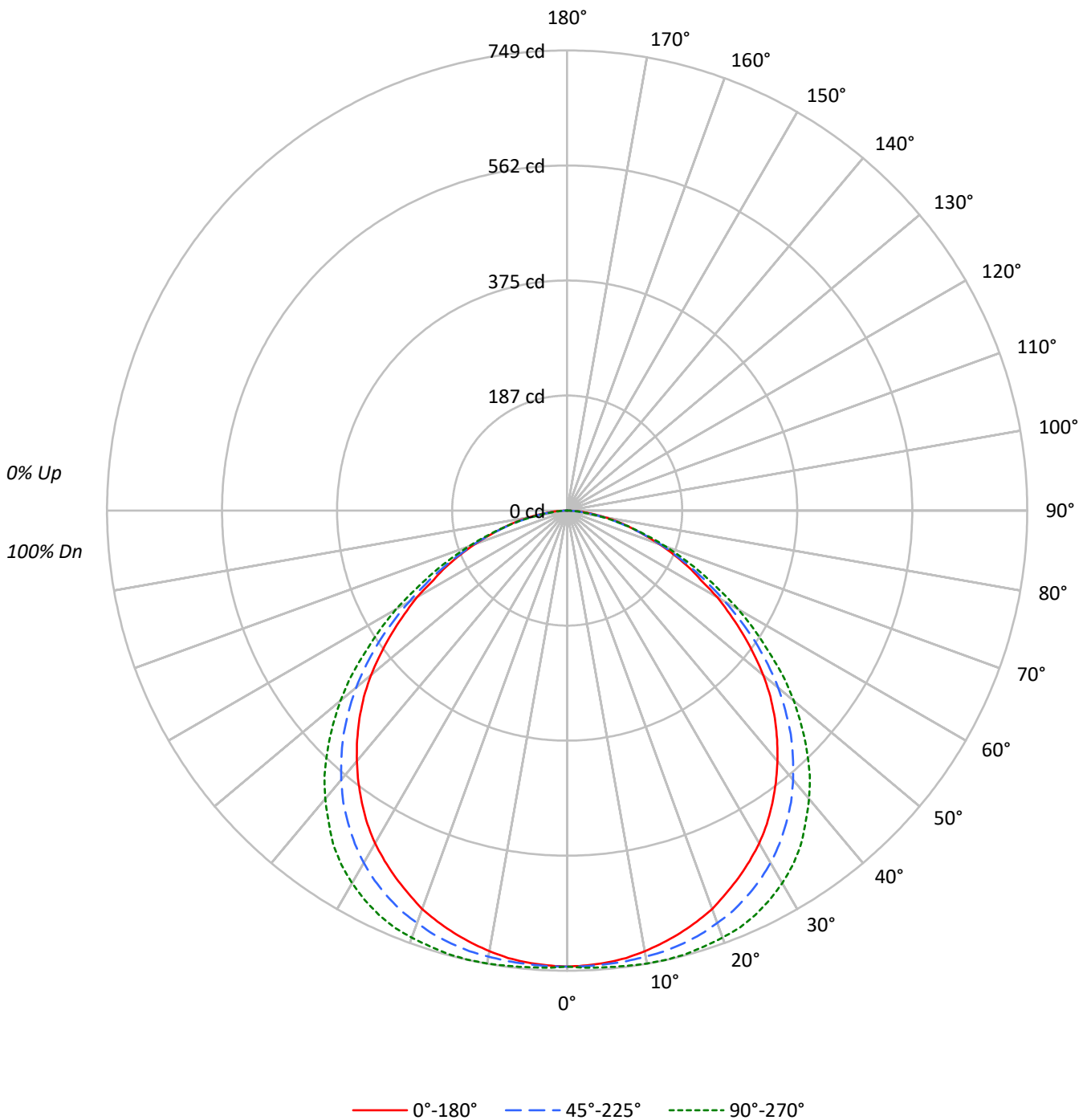
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1998	1998	1998
5°	1995	2002	2015
10°	1990	2014	2046
15°	1983	2033	2082
20°	1977	2046	2118
25°	1959	2057	2155
30°	1943	2058	2176
35°	1912	2042	2180
40°	1871	2009	2152
45°	1819	1959	2099
50°	1745	1878	2017
55°	1634	1759	1879
60°	1519	1601	1731
65°	1392	1440	1538
70°	1260	1280	1340
75°	1110	1083	1123
80°	965	886	848
85°	784	590	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.4
10°-20°	206.1	9.9
20°-30°	319.3	15.4
30°-40°	388.6	18.7
40°-50°	395.8	19.0
50°-60°	333.8	16.1
60°-70°	225.8	10.9
70°-80°	112.8	5.4
80°-90°	25.1	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°	596.1	28.7
0°-40°	984.7	47.4
0°-60°	1714.3	82.5
0°-90°	2078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	738	740	741	745	746	70
15°	712	717	730	742	747	201
25°	660	670	693	716	726	304
35°	582	595	622	651	664	364
45°	478	487	515	541	552	368
55°	348	353	375	393	400	312
65°	219	215	226	236	242	216
75°	107	103	104	106	108	114
85°	25	22	19	16	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.3	742.3	742.3	742.3	742.3
2.5°	741.0	741.0	742.3	743.5	744.8
5°	738.5	739.7	741.0	744.8	746.1
7.5°	734.6	735.9	739.7	744.8	747.4
10°	728.3	730.8	737.2	744.8	748.6
12.5°	720.7	724.5	734.6	743.5	748.6
15°	711.8	716.8	729.6	742.3	747.4
17.5°	701.6	708.0	723.2	737.2	743.5
20°	690.2	697.8	714.3	732.1	739.7
22.5°	674.9	685.1	705.4	725.7	734.6
25°	659.7	669.8	692.7	715.6	725.7
27.5°	643.1	654.6	678.7	704.1	714.3
30°	625.3	635.5	662.2	688.9	700.3
32.5°	605.0	615.2	643.1	671.1	683.8
35°	582.1	594.8	621.5	650.8	663.5
37.5°	558.0	569.4	598.6	626.6	638.0
40°	532.6	544.0	572.0	601.2	612.6
42.5°	505.9	517.3	544.0	572.0	584.7
45°	477.9	486.8	514.8	541.4	551.6
47.5°	448.7	455.0	481.7	507.1	517.3
50°	416.9	423.2	448.7	471.5	481.7
52.5°	382.6	387.7	411.8	432.1	443.6
55°	348.3	353.3	374.9	392.7	400.4
57.5°	313.9	316.5	335.5	353.3	361.0
60°	282.2	282.2	297.4	311.4	321.6
62.5°	245.3	249.1	260.6	274.5	278.4
65°	218.6	214.8	226.2	236.4	241.5
67.5°	188.1	185.6	193.2	202.1	204.6
70°	160.1	156.3	162.7	167.8	170.3
72.5°	130.9	129.6	132.2	136.0	137.3
75°	106.8	103.0	104.2	105.5	108.0
77.5°	85.2	78.8	80.1	78.8	80.1
80°	62.3	57.2	57.2	55.9	54.7
82.5°	41.9	39.4	36.9	34.3	33.0
85°	25.4	21.6	19.1	16.5	16.5
87.5°	10.2	7.6	6.4	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)