

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: P295729

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3072.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

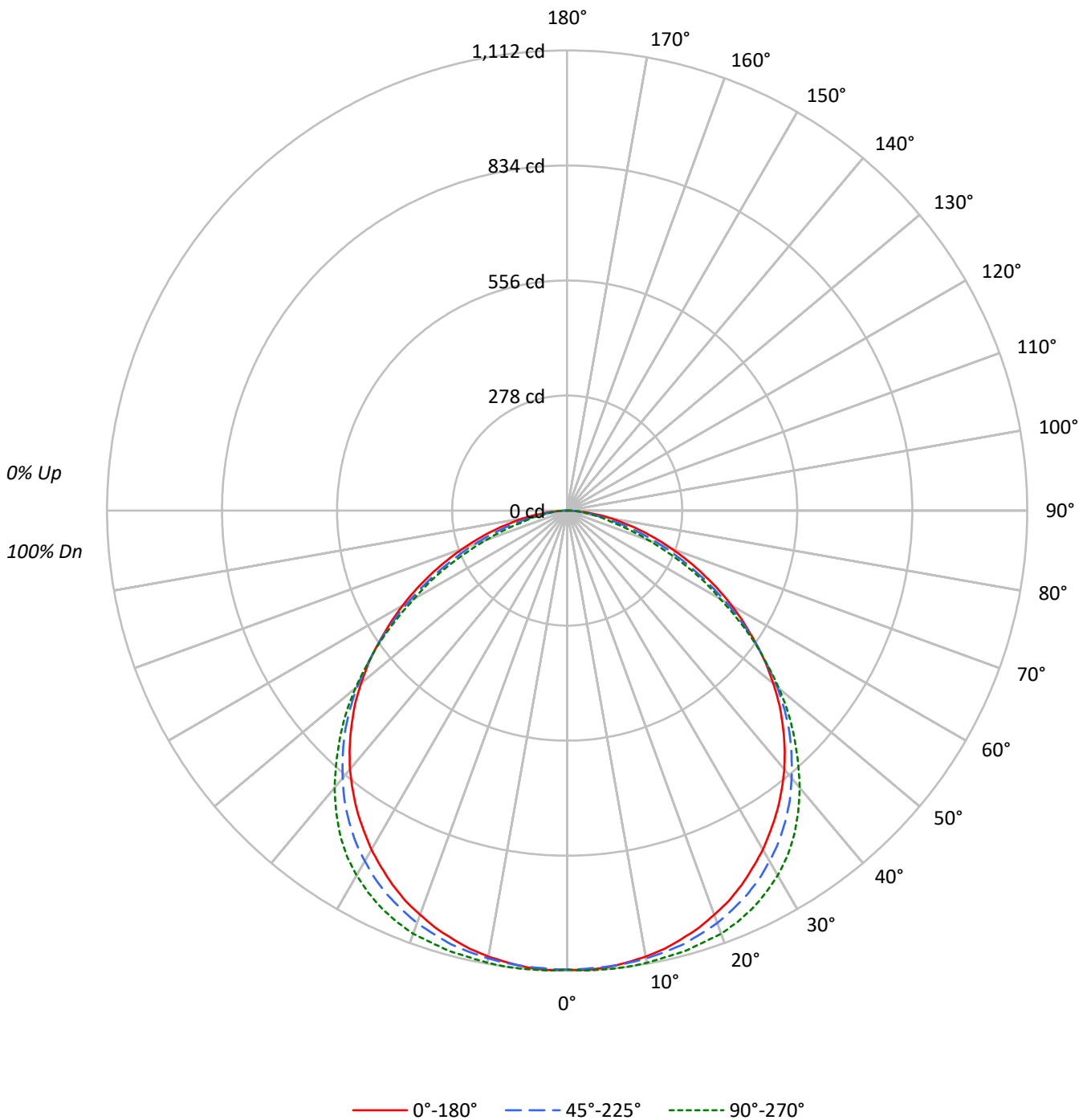
Input Watts (W): 34.224
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	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	38		49	42	37		48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2985	2985	2985
5°	2993	2989	3005
10°	2990	3002	3031
15°	2985	3023	3070
20°	2976	3037	3116
25°	2963	3045	3149
30°	2940	3040	3163
35°	2908	3018	3143
40°	2868	2964	3072
45°	2805	2892	2956
50°	2722	2773	2798
55°	2606	2599	2585
60°	2472	2390	2300
65°	2303	2138	2021
70°	2102	1873	1633
75°	1888	1554	1222
80°	1678	1134	1065
85°	1318	942	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	3.4
10°-20°	306.9	10.0
20°-30°	473.7	15.4
30°-40°	574.5	18.7
40°-50°	583.3	19.0
50°-60°	493.4	16.1
60°-70°	333.8	10.9
70°-80°	161.4	5.3
80°-90°	39.4	1.3
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°	886.2	28.8
0°-40°	1460.7	47.5
0°-60°	2537.4	82.6
0°-90°	3072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1108	1108	1106	1111	1112	105
15°	1071	1077	1085	1097	1102	303
25°	998	1006	1026	1051	1061	460
35°	885	894	919	948	957	553
45°	737	739	760	775	777	568
55°	556	551	554	554	551	497
65°	362	346	336	322	317	359
75°	182	168	150	130	118	193
85°	43	34	30	30	30	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.4	1109.4	1109.4	1109.4	1109.4
2.5°	1110.9	1110.9	1107.9	1110.9	1112.5
5°	1107.9	1107.9	1106.4	1110.9	1112.5
7.5°	1101.8	1103.3	1103.3	1109.4	1112.5
10°	1094.2	1097.2	1098.7	1107.9	1109.4
12.5°	1085.0	1088.0	1092.6	1103.3	1104.8
15°	1071.3	1077.4	1085.0	1097.2	1101.8
17.5°	1057.5	1063.6	1072.8	1089.6	1094.2
20°	1039.2	1046.8	1060.6	1080.4	1088.0
22.5°	1020.9	1027.0	1043.8	1068.2	1075.8
25°	998.0	1005.6	1025.5	1051.4	1060.6
27.5°	972.1	982.8	1004.1	1031.6	1040.7
30°	946.1	955.3	978.2	1008.7	1017.9
32.5°	915.6	924.8	950.7	979.7	990.4
35°	885.1	894.2	918.7	947.7	956.8
37.5°	851.5	857.6	883.6	908.0	917.1
40°	816.4	821.0	843.9	868.3	874.4
42.5°	778.3	781.3	802.7	824.0	825.6
45°	737.1	738.6	760.0	775.2	776.7
47.5°	695.9	694.3	712.6	723.3	724.9
50°	650.1	650.1	662.3	668.4	668.4
52.5°	604.3	601.2	607.4	611.9	607.4
55°	555.5	550.9	553.9	553.9	550.9
57.5°	506.6	497.5	499.0	496.0	488.3
60°	459.3	448.6	444.1	433.4	427.3
62.5°	410.5	398.3	389.1	376.9	375.4
65°	361.7	346.4	335.7	322.0	317.4
67.5°	314.4	300.6	285.4	270.1	260.9
70°	267.1	251.8	238.1	218.2	207.5
72.5°	224.3	210.6	193.8	170.9	163.3
75°	181.6	167.9	149.5	129.7	117.5
77.5°	140.4	129.7	109.9	93.1	91.6
80°	108.3	96.1	73.2	68.7	68.7
82.5°	70.2	62.6	51.9	48.8	48.8
85°	42.7	33.6	30.5	30.5	30.5
87.5°	16.8	15.3	15.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)