

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: P296290

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2423.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

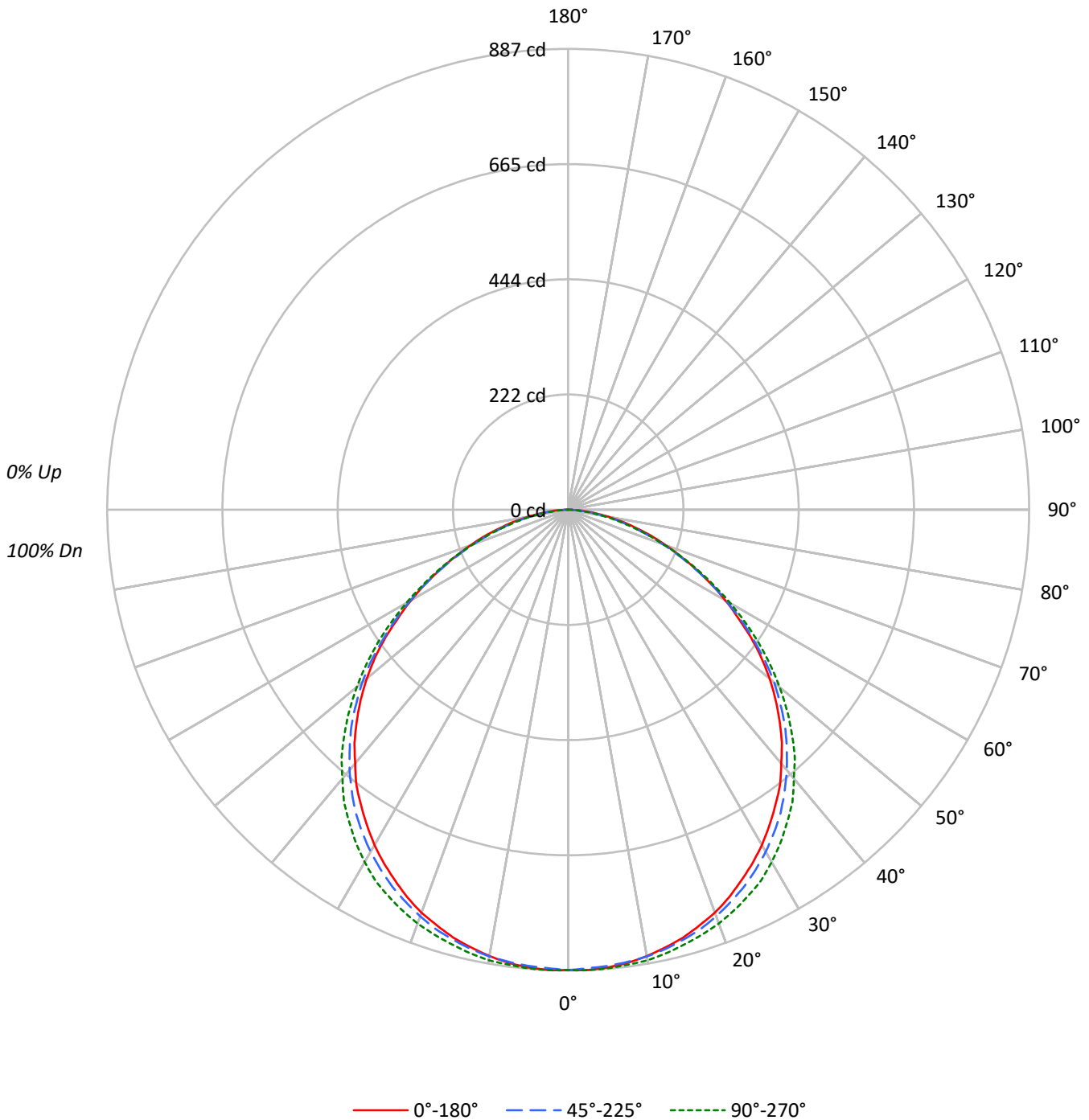
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	99	95	98	95	92	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	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	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	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1192	1192	1192
5°	1194	1191	1197
10°	1192	1193	1203
15°	1188	1193	1206
20°	1182	1192	1213
25°	1169	1189	1217
30°	1158	1181	1217
35°	1141	1170	1206
40°	1120	1150	1187
45°	1095	1123	1158
50°	1058	1083	1112
55°	1007	1020	1050
60°	940	945	970
65°	863	857	878
70°	785	763	767
75°	698	659	655
80°	605	542	527
85°	497	383	298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.5
10°-20°	242.3	10.0
20°-30°	369.8	15.3
30°-40°	445.8	18.4
40°-50°	454.6	18.8
50°-60°	389.1	16.1
60°-70°	268.0	11.1
70°-80°	137.4	5.7
80°-90°	32.0	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°	696.1	28.7
0°-40°	1141.9	47.1
0°-60°	1985.6	81.9
0°-90°	2423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	884	882	882	884	886	84
15°	853	852	857	863	866	241
25°	788	790	801	814	820	363
35°	695	698	712	728	734	435
45°	575	576	590	605	608	443
55°	429	426	435	444	448	383
65°	271	265	269	271	276	269
75°	134	129	127	127	126	145
85°	32	28	25	22	19	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.1	886.1	886.1	886.1	886.1
2.5°	887.0	885.2	883.3	885.2	887.0
5°	884.3	882.4	881.5	884.3	886.1
7.5°	879.7	877.8	877.8	881.5	883.3
10°	872.3	871.4	873.2	876.9	880.6
12.5°	863.1	863.1	865.9	870.5	874.2
15°	853.0	852.1	856.7	863.1	865.9
17.5°	839.2	840.1	846.6	853.9	857.6
20°	825.4	826.4	832.8	842.9	847.5
22.5°	808.0	809.8	817.2	830.0	834.6
25°	787.7	790.5	800.6	814.4	819.9
27.5°	767.5	770.3	781.3	796.9	804.3
30°	745.5	749.1	760.2	776.7	783.2
32.5°	720.6	723.4	737.2	753.7	760.2
35°	694.9	697.7	712.4	728.0	734.4
37.5°	669.2	669.2	683.9	702.3	708.7
40°	637.9	638.8	654.5	671.9	675.6
42.5°	608.5	608.5	622.3	638.8	645.3
45°	575.4	576.3	590.1	604.8	608.5
47.5°	541.4	541.4	553.4	567.1	570.8
50°	505.6	503.7	517.5	528.5	531.3
52.5°	468.8	466.0	477.1	486.3	489.9
55°	429.3	426.5	434.8	444.0	447.6
57.5°	387.9	384.2	393.4	401.7	403.5
60°	349.3	343.8	351.1	355.7	360.3
62.5°	310.7	304.3	309.8	312.5	316.2
65°	271.2	264.7	269.3	271.2	275.8
67.5°	233.5	228.9	229.8	232.6	234.4
70°	199.5	193.9	193.9	193.9	194.9
72.5°	168.2	159.9	159.0	159.9	159.9
75°	134.2	128.7	126.8	126.8	125.9
77.5°	107.5	100.2	99.3	97.4	95.6
80°	78.1	71.7	69.9	68.9	68.0
82.5°	54.2	48.7	46.9	45.0	42.3
85°	32.2	28.5	24.8	22.1	19.3
87.5°	11.9	11.0	9.2	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)