

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: P296065

Luminaire Tested: **24RLN-LD5-60-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-60-UNV-L92765-W2A1-U-6500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5717.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

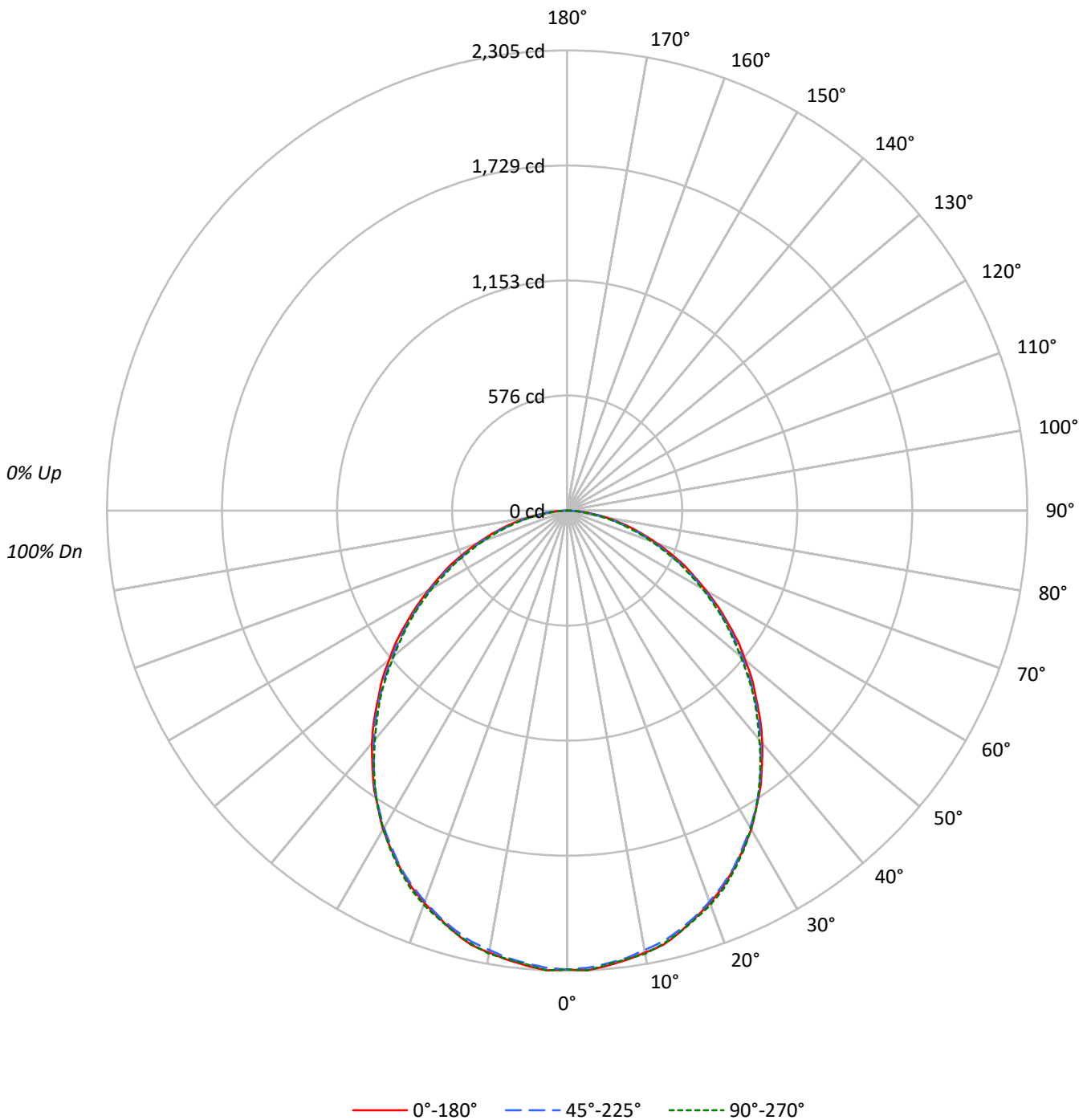
Input Watts (W): 45.291  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3092	3092	3092
5°	3091	3076	3084
10°	3072	3054	3079
15°	3044	3029	3044
20°	2995	2984	3008
25°	2935	2930	2946
30°	2866	2851	2860
35°	2775	2763	2757
40°	2673	2647	2630
45°	2551	2527	2516
50°	2436	2397	2370
55°	2306	2271	2250
60°	2169	2129	2104
65°	2049	1973	1955
70°	1879	1806	1770
75°	1726	1620	1553
80°	1515	1415	1329
85°	1224	1139	968



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	3.8
10°-20°	614.7	10.8
20°-30°	909.3	15.9
30°-40°	1049.4	18.4
40°-50°	1024.9	17.9
50°-60°	865.5	15.1
60°-70°	616.5	10.8
70°-80°	333.8	5.8
80°-90°	86.1	1.5
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°	1740.8	30.4
0°-40°	2790.2	48.8
0°-60°	4680.6	81.9
0°-90°	5717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2289	2289	2278	2283	2283	217
15°	2186	2176	2174	2184	2186	616
25°	1977	1966	1974	1981	1984	910
35°	1689	1676	1682	1676	1678	1054
45°	1341	1330	1328	1322	1322	1037
55°	983	970	968	959	959	881
65°	644	631	620	612	614	635
75°	332	321	312	304	299	351
85°	79	78	74	65	63	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2298.1	2298.1	2298.1	2298.1	2298.1
2.5°	2305.4	2296.2	2292.5	2294.4	2305.4
5°	2288.8	2288.8	2277.8	2283.3	2283.3
7.5°	2270.4	2272.3	2261.2	2270.4	2266.7
10°	2248.3	2242.7	2235.4	2250.1	2253.8
12.5°	2228.0	2215.1	2211.4	2220.6	2222.5
15°	2185.6	2176.3	2174.5	2183.7	2185.6
17.5°	2137.6	2139.5	2132.1	2145.0	2143.1
20°	2091.5	2087.8	2084.1	2098.9	2100.7
22.5°	2039.9	2028.8	2032.5	2045.4	2049.1
25°	1977.2	1966.1	1973.5	1980.8	1984.5
27.5°	1910.8	1905.2	1903.4	1912.6	1916.3
30°	1844.4	1835.1	1835.1	1846.2	1840.7
32.5°	1763.2	1755.8	1759.5	1763.2	1765.1
35°	1689.4	1676.5	1682.1	1676.5	1678.4
37.5°	1602.7	1593.5	1591.7	1589.8	1589.8
40°	1521.6	1514.2	1506.8	1506.8	1497.6
42.5°	1433.1	1423.8	1420.2	1414.6	1409.1
45°	1340.8	1329.8	1327.9	1322.4	1322.4
47.5°	1257.9	1241.3	1239.4	1228.3	1228.3
50°	1163.8	1152.7	1145.3	1138.0	1132.4
52.5°	1079.0	1067.9	1056.8	1049.4	1043.9
55°	983.0	970.1	968.3	959.1	959.1
57.5°	896.4	885.3	877.9	866.8	868.7
60°	806.0	794.9	791.2	782.0	782.0
62.5°	721.1	711.9	706.4	697.2	689.8
65°	643.7	630.8	619.7	612.3	614.2
67.5°	558.8	544.1	538.6	531.2	525.6
70°	477.7	468.5	459.2	450.0	450.0
72.5°	402.1	392.8	387.3	376.2	372.6
75°	332.0	320.9	311.7	304.3	298.8
77.5°	261.9	250.8	245.3	236.1	236.1
80°	195.5	188.1	182.6	178.9	171.5
82.5°	134.6	130.9	125.4	119.9	114.4
85°	79.3	77.5	73.8	64.6	62.7
87.5°	31.4	31.4	27.7	25.8	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)