

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: P260664

Luminaire Tested: **24CZ-LD5-65-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6000.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

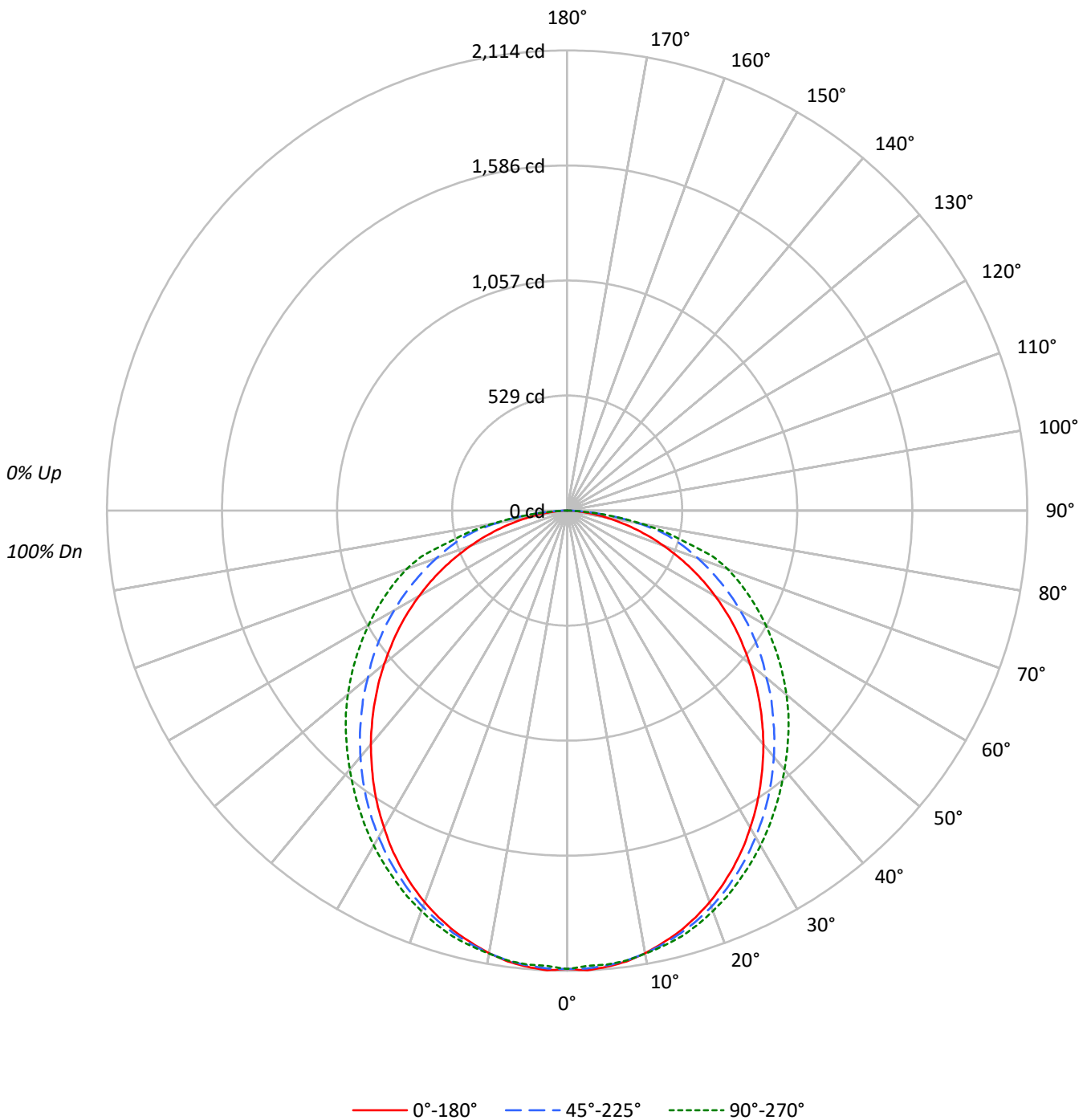
Input Watts (W): 50.189868
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2833	2833	2833
5°	2841	2833	2827
10°	2821	2821	2824
15°	2787	2802	2822
20°	2742	2774	2803
25°	2684	2736	2782
30°	2614	2691	2761
35°	2541	2645	2740
40°	2464	2594	2728
45°	2381	2545	2736
50°	2296	2503	2752
55°	2212	2487	2781
60°	2112	2471	2836
65°	2001	2472	2930
70°	1851	2513	3087
75°	1655	2627	2937
80°	1385	2515	2690
85°	1047	1934	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	3.3
10°-20°	566.3	9.4
20°-30°	846.6	14.1
30°-40°	1004.4	16.7
40°-50°	1033.8	17.2
50°-60°	948.3	15.8
60°-70°	766.8	12.8
70°-80°	497.6	8.3
80°-90°	137.2	2.3
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°	1611.9	26.9
0°-40°	2616.3	43.6
0°-60°	4598.4	76.6
0°-90°	6000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2104	2089	2098	2095	2093	200
15°	2001	1993	2011	2019	2026	564
25°	1808	1810	1843	1859	1874	832
35°	1547	1559	1611	1646	1668	967
45°	1251	1272	1337	1401	1438	965
55°	943	972	1060	1146	1185	842
65°	629	666	776	879	920	621
75°	318	378	505	565	565	338
85°	68	115	125	121	119	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2105.7	2105.7	2105.7	2105.7	2105.7
2.5°	2113.9	2097.5	2105.7	2103.7	2093.4
5°	2103.7	2089.3	2097.5	2095.4	2093.4
7.5°	2089.3	2074.9	2085.2	2083.1	2085.2
10°	2064.6	2052.3	2064.6	2066.7	2066.7
12.5°	2033.8	2023.5	2040.0	2044.1	2048.2
15°	2000.9	1992.7	2011.2	2019.4	2025.6
17.5°	1959.8	1953.7	1976.3	1986.6	1994.8
20°	1914.7	1912.6	1937.2	1947.5	1957.8
22.5°	1863.3	1863.3	1892.1	1904.4	1918.8
25°	1807.8	1809.9	1842.7	1859.2	1873.6
27.5°	1748.2	1750.3	1789.3	1809.9	1826.3
30°	1682.5	1690.7	1731.8	1758.5	1777.0
32.5°	1616.8	1627.0	1672.2	1703.1	1723.6
35°	1546.9	1559.2	1610.6	1645.5	1668.1
37.5°	1475.0	1489.4	1544.9	1583.9	1610.6
40°	1403.1	1419.6	1477.1	1522.3	1553.1
42.5°	1327.1	1345.6	1409.3	1462.7	1495.6
45°	1251.1	1271.6	1337.4	1401.1	1438.0
47.5°	1175.1	1199.7	1269.6	1339.4	1378.5
50°	1097.0	1121.7	1195.6	1275.7	1314.8
52.5°	1019.0	1047.7	1129.9	1212.1	1251.1
55°	942.9	971.7	1060.0	1146.3	1185.4
57.5°	864.9	893.6	990.2	1080.6	1119.6
60°	784.8	817.6	918.3	1010.7	1053.9
62.5°	706.7	741.6	848.4	947.1	988.1
65°	628.6	665.6	776.5	879.3	920.3
67.5°	548.5	591.7	706.7	811.5	854.6
70°	470.4	517.7	638.9	743.7	784.8
72.5°	394.4	445.8	571.1	677.9	702.6
75°	318.4	378.0	505.4	564.9	564.9
77.5°	246.5	312.3	431.4	454.0	466.3
80°	178.7	250.6	324.6	351.3	347.2
82.5°	119.2	191.1	232.1	232.1	226.0
85°	67.8	115.0	125.3	121.2	119.2
87.5°	28.8	43.1	39.0	30.8	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)