

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: P229993

Luminaire Tested: **24CZ-LD5-75-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229993
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-LD5-75-UNV-L935-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RIBBED LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6450.0 lumens
Efficiency: N/A
Efficacy: 93.4 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

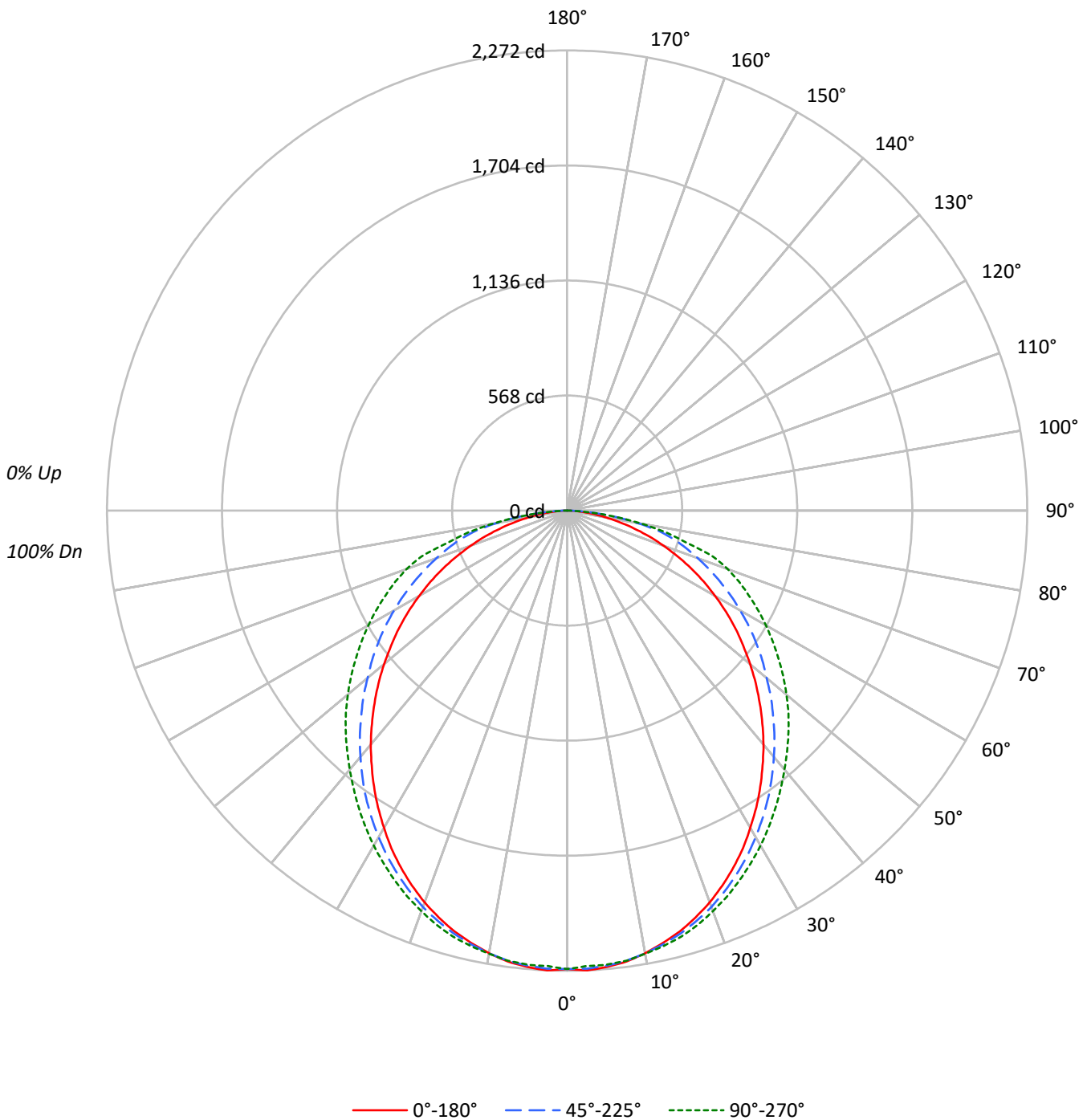
Input Watts (W): 69.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3046	3046	3046
5°	3054	3045	3039
10°	3032	3032	3035
15°	2996	3012	3033
20°	2947	2982	3013
25°	2885	2941	2990
30°	2810	2892	2968
35°	2731	2844	2945
40°	2649	2789	2933
45°	2559	2736	2942
50°	2469	2690	2959
55°	2378	2673	2989
60°	2270	2657	3049
65°	2152	2658	3150
70°	1989	2702	3319
75°	1779	2824	3157
80°	1488	2703	2892
85°	1125	2079	1978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	3.3
10°-20°	608.8	9.4
20°-30°	910.1	14.1
30°-40°	1079.7	16.7
40°-50°	1111.3	17.2
50°-60°	1019.5	15.8
60°-70°	824.3	12.8
70°-80°	535.0	8.3
80°-90°	147.5	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°	1732.8	26.9
0°-40°	2812.5	43.6
0°-60°	4943.3	76.6
0°-90°	6450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2264	2264	2264	2264	2264	
5°	2261	2246	2255	2253	2250	215
15°	2151	2142	2162	2171	2178	606
25°	1943	1946	1981	1999	2014	895
35°	1663	1676	1731	1769	1793	1040
45°	1345	1367	1438	1506	1546	1038
55°	1014	1045	1140	1232	1274	906
65°	676	716	835	945	989	668
75°	342	406	543	607	607	364
85°	73	124	135	130	128	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2263.6	2263.6	2263.6	2263.6	2263.6
2.5°	2272.4	2254.8	2263.6	2261.4	2250.4
5°	2261.4	2245.9	2254.8	2252.6	2250.4
7.5°	2245.9	2230.5	2241.5	2239.3	2241.5
10°	2219.4	2206.2	2219.4	2221.7	2221.7
12.5°	2186.3	2175.3	2192.9	2197.4	2201.8
15°	2151.0	2142.2	2162.0	2170.9	2177.5
17.5°	2106.8	2100.2	2124.5	2135.5	2144.4
20°	2058.2	2056.0	2082.5	2093.6	2104.6
22.5°	2003.0	2003.0	2033.9	2047.2	2062.6
25°	1943.4	1945.6	1980.9	1998.6	2014.1
27.5°	1879.4	1881.6	1923.5	1945.6	1963.3
30°	1808.7	1817.5	1861.7	1890.4	1910.3
32.5°	1738.0	1749.1	1797.6	1830.8	1852.9
35°	1662.9	1676.2	1731.4	1768.9	1793.2
37.5°	1585.6	1601.1	1660.7	1702.7	1731.4
40°	1508.3	1526.0	1587.8	1636.4	1669.6
42.5°	1426.6	1446.5	1515.0	1572.4	1607.7
45°	1344.9	1367.0	1437.7	1506.1	1545.9
47.5°	1263.2	1289.7	1364.8	1439.9	1481.8
50°	1179.3	1205.8	1285.3	1371.4	1413.4
52.5°	1095.4	1126.3	1214.6	1303.0	1344.9
55°	1013.7	1044.6	1139.5	1232.3	1274.2
57.5°	929.7	960.7	1064.5	1161.6	1203.6
60°	843.6	878.9	987.2	1086.5	1132.9
62.5°	759.7	797.2	912.1	1018.1	1062.2
65°	675.8	715.5	834.8	945.2	989.4
67.5°	589.6	636.0	759.7	872.3	918.7
70°	505.7	556.5	686.8	799.4	843.6
72.5°	424.0	479.2	613.9	728.8	755.3
75°	342.3	406.3	543.3	607.3	607.3
77.5°	265.0	335.7	463.8	488.1	501.3
80°	192.1	269.4	348.9	377.6	373.2
82.5°	128.1	205.4	249.5	249.5	242.9
85°	72.9	123.7	134.7	130.3	128.1
87.5°	30.9	46.4	42.0	33.1	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)