

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: P#

Luminaire Tested: **24CZ-LD5-75-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
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-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

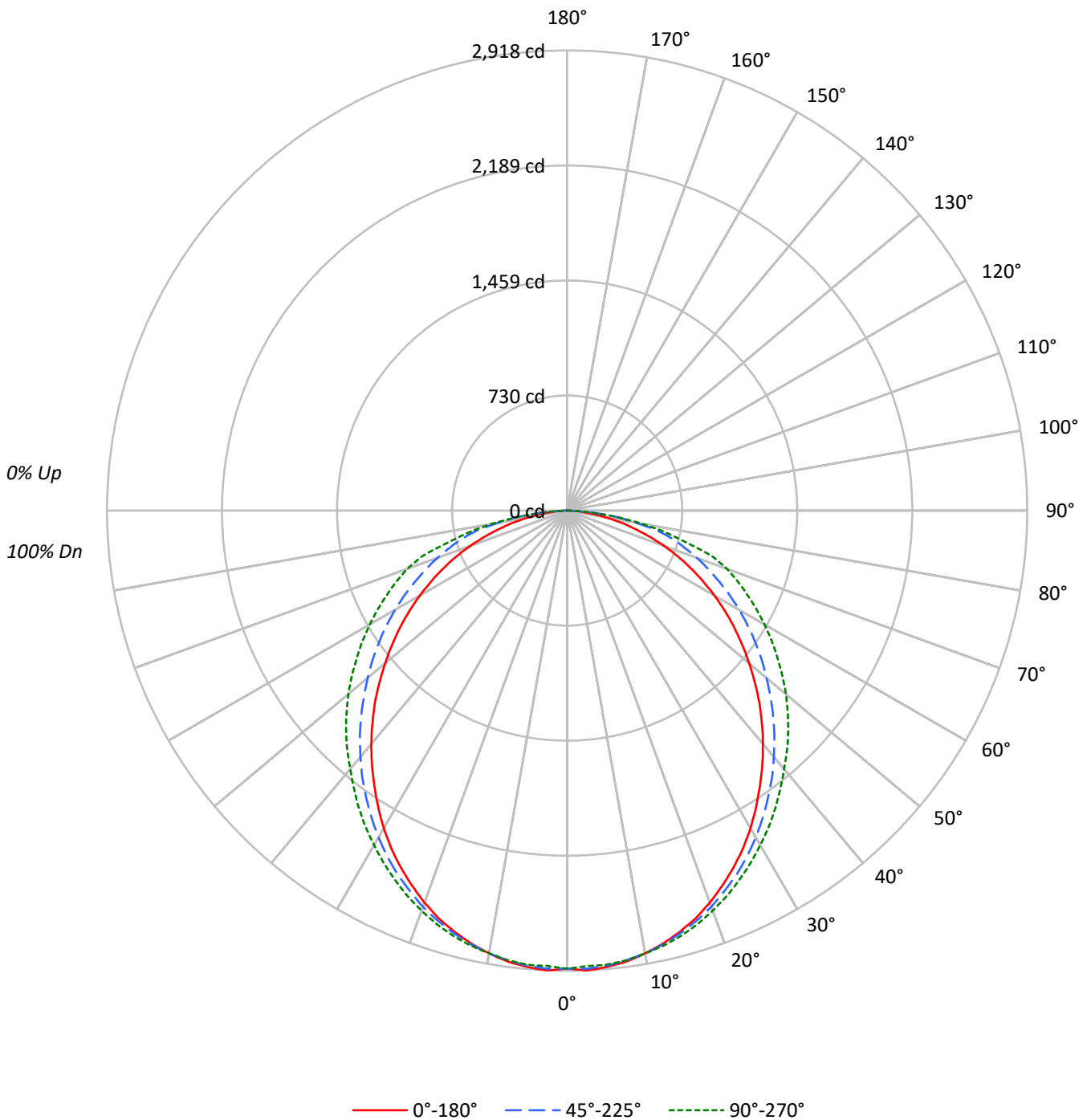
Lumens per Lamp: N/A
Luminaire Lumens: 8265.1 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 69.06
Input Voltage (V): NR
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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3908	3908	3908
5°	3914	3893	3887
10°	3878	3859	3861
15°	3824	3811	3838
20°	3754	3756	3796
25°	3664	3687	3749
30°	3561	3607	3698
35°	3440	3518	3654
40°	3323	3428	3607
45°	3200	3338	3592
50°	3063	3249	3577
55°	2929	3176	3564
60°	2785	3104	3579
65°	2617	3038	3622
70°	2401	3002	3725
75°	2099	2990	3424
80°	1718	2629	2902
85°	1181	1702	1657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	3.3
10°-20°	781.7	9.5
20°-30°	1168.6	14.1
30°-40°	1385.7	16.8
40°-50°	1425.0	17.2
50°-60°	1303.5	15.8
60°-70°	1051.3	12.7
70°-80°	682.5	8.3
80°-90°	192.1	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°	2225.0	26.9
0°-40°	3610.7	43.7
0°-60°	6339.2	76.7
0°-90°	8265.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8265.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2904	2904	2904	2904	2904	
5°	2904	2885	2896	2890	2890	276
15°	2764	2750	2775	2786	2792	779
25°	2497	2497	2545	2564	2584	1149
35°	2131	2151	2221	2266	2303	1334
45°	1724	1754	1847	1932	1982	1328
55°	1293	1336	1456	1572	1628	1157
65°	866	917	1063	1201	1260	856
75°	441	523	689	773	782	471
85°	98	163	177	174	169	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2904.5	2904.5	2904.5	2904.5	2904.5
2.5°	2918.5	2896.0	2907.3	2901.6	2890.4
5°	2904.5	2884.8	2896.0	2890.4	2890.4
7.5°	2884.8	2865.1	2876.3	2876.3	2876.3
10°	2851.0	2834.2	2851.0	2851.0	2851.0
12.5°	2811.7	2797.6	2817.3	2820.1	2825.7
15°	2763.9	2749.8	2775.1	2786.4	2792.0
17.5°	2710.4	2699.2	2727.3	2741.4	2749.8
20°	2645.8	2637.3	2673.9	2688.0	2699.2
22.5°	2572.7	2572.7	2609.2	2626.1	2645.8
25°	2496.8	2496.8	2544.6	2564.2	2583.9
27.5°	2415.2	2418.0	2471.5	2499.6	2519.3
30°	2325.2	2336.5	2392.7	2426.5	2449.0
32.5°	2229.7	2243.7	2308.4	2350.6	2378.7
35°	2131.2	2150.9	2221.2	2266.2	2302.8
37.5°	2032.8	2058.1	2134.1	2184.7	2221.2
40°	1931.6	1959.7	2038.5	2097.5	2139.7
42.5°	1827.6	1858.5	1945.7	2013.2	2063.8
45°	1723.6	1754.5	1847.3	1931.6	1982.2
47.5°	1613.9	1650.4	1748.9	1847.3	1897.9
50°	1507.1	1546.4	1650.4	1757.3	1810.7
52.5°	1400.2	1445.2	1554.9	1667.3	1720.7
55°	1293.4	1335.5	1456.4	1571.7	1628.0
57.5°	1186.5	1231.5	1358.0	1478.9	1538.0
60°	1079.7	1127.5	1259.6	1386.2	1445.2
62.5°	970.0	1020.6	1161.2	1293.4	1352.4
65°	866.0	916.6	1062.8	1200.6	1259.6
67.5°	759.2	815.4	967.2	1107.8	1169.7
70°	652.3	714.2	874.4	1015.0	1076.9
72.5°	545.5	615.8	778.8	919.4	964.4
75°	441.4	523.0	688.9	773.2	781.6
77.5°	345.8	430.2	587.6	621.4	638.2
80°	253.1	345.8	441.4	483.6	480.8
82.5°	168.7	264.3	317.7	323.3	317.7
85°	98.4	163.1	177.1	174.3	168.7
87.5°	42.2	64.7	56.2	47.8	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)