

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-LD5-60-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-LD5-60-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

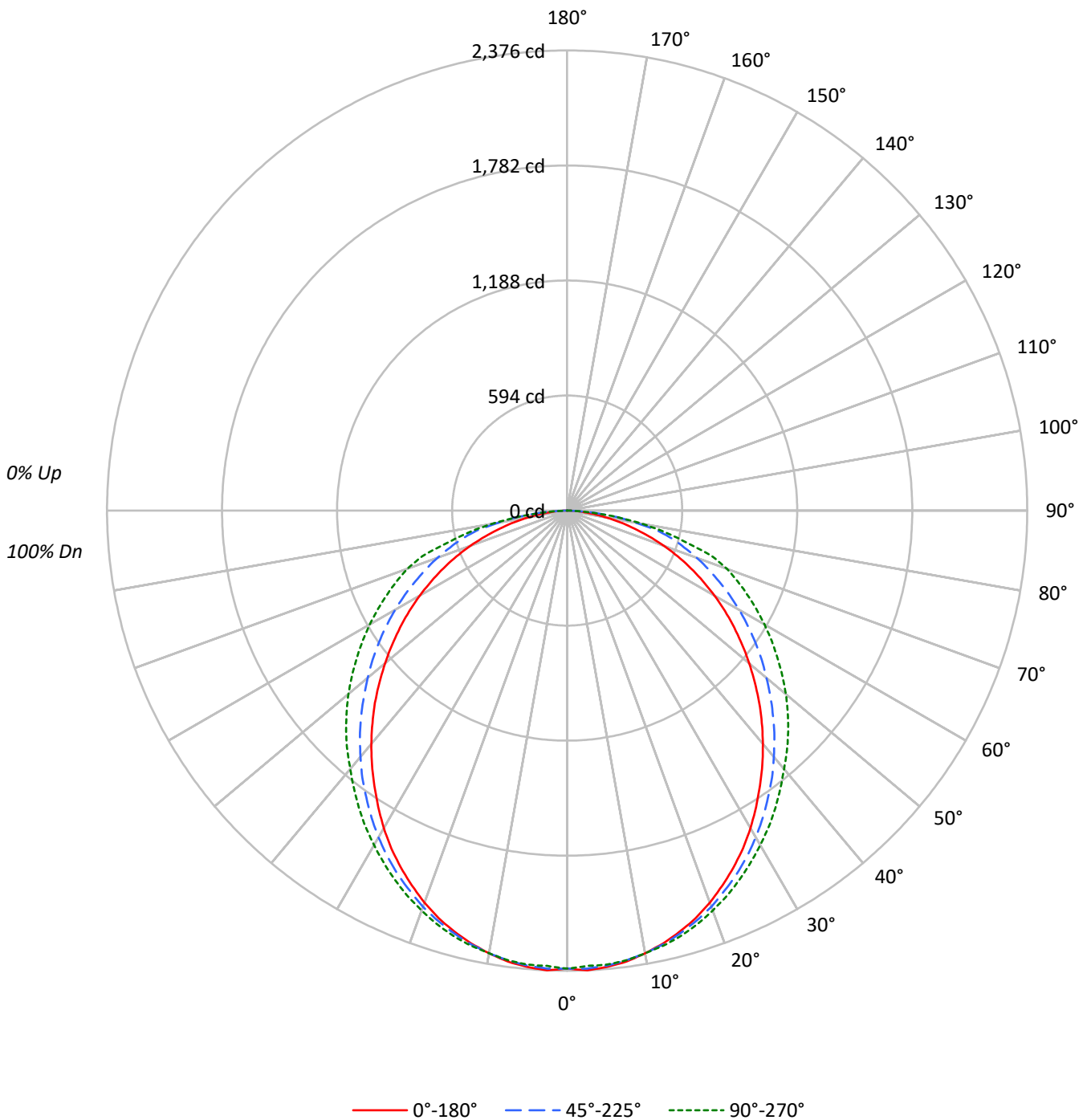
Lumens per Lamp: N/A
Luminaire Lumens: 6729.3 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 52.17
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	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	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	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	33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3182	3182	3182
5°	3187	3170	3165
10°	3157	3142	3144
15°	3114	3103	3125
20°	3057	3058	3090
25°	2983	3001	3052
30°	2899	2937	3011
35°	2801	2864	2975
40°	2706	2791	2937
45°	2605	2718	2925
50°	2494	2646	2912
55°	2385	2586	2902
60°	2267	2528	2914
65°	2131	2474	2949
70°	1955	2444	3033
75°	1709	2434	2788
80°	1398	2141	2363
85°	962	1386	1350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	3.3
10°-20°	636.5	9.5
20°-30°	951.4	14.1
30°-40°	1128.2	16.8
40°-50°	1160.2	17.2
50°-60°	1061.3	15.8
60°-70°	856.0	12.7
70°-80°	555.7	8.3
80°-90°	156.4	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°	1811.5	26.9
0°-40°	2939.7	43.7
0°-60°	5161.3	76.7
0°-90°	6729.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6729.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2365	2365	2365	2365	2365	
5°	2365	2349	2358	2353	2353	224
15°	2250	2239	2259	2269	2273	634
25°	2033	2033	2072	2088	2104	936
35°	1735	1751	1808	1845	1875	1086
45°	1403	1428	1504	1573	1614	1082
55°	1053	1087	1186	1280	1325	942
65°	705	746	865	978	1026	697
75°	359	426	561	630	636	383
85°	80	133	144	142	137	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2364.7	2364.7	2364.7	2364.7	2364.7
2.5°	2376.2	2357.9	2367.0	2362.4	2353.3
5°	2364.7	2348.7	2357.9	2353.3	2353.3
7.5°	2348.7	2332.7	2341.8	2341.8	2341.8
10°	2321.2	2307.5	2321.2	2321.2	2321.2
12.5°	2289.2	2277.7	2293.8	2296.1	2300.6
15°	2250.3	2238.8	2259.4	2268.6	2273.2
17.5°	2206.8	2197.6	2220.5	2232.0	2238.8
20°	2154.1	2147.3	2177.0	2188.5	2197.6
22.5°	2094.6	2094.6	2124.4	2138.1	2154.1
25°	2032.8	2032.8	2071.7	2087.7	2103.8
27.5°	1966.4	1968.7	2012.2	2035.1	2051.1
30°	1893.2	1902.3	1948.1	1975.6	1993.9
32.5°	1815.3	1826.8	1879.4	1913.8	1936.7
35°	1735.2	1751.2	1808.5	1845.1	1874.9
37.5°	1655.1	1675.7	1737.5	1778.7	1808.5
40°	1572.7	1595.6	1659.7	1707.7	1742.1
42.5°	1488.0	1513.2	1584.1	1639.1	1680.3
45°	1403.3	1428.5	1504.0	1572.7	1613.9
47.5°	1314.0	1343.8	1423.9	1504.0	1545.2
50°	1227.0	1259.1	1343.8	1430.7	1474.2
52.5°	1140.0	1176.6	1265.9	1357.5	1401.0
55°	1053.0	1087.4	1185.8	1279.7	1325.4
57.5°	966.0	1002.7	1105.7	1204.1	1252.2
60°	879.1	918.0	1025.6	1128.6	1176.6
62.5°	789.8	831.0	945.4	1053.0	1101.1
65°	705.1	746.3	865.3	977.5	1025.6
67.5°	618.1	663.9	787.5	901.9	952.3
70°	531.1	581.5	711.9	826.4	876.8
72.5°	444.1	501.3	634.1	748.6	785.2
75°	359.4	425.8	560.9	629.5	636.4
77.5°	281.6	350.2	478.4	505.9	519.6
80°	206.0	281.6	359.4	393.7	391.5
82.5°	137.4	215.2	258.7	263.3	258.7
85°	80.1	132.8	144.2	141.9	137.4
87.5°	34.3	52.7	45.8	38.9	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)