

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-LD5-60SE-S-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 (P25694)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-60SE-S-UNV-L850-CD1-U  
Description: CRUZE 2x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

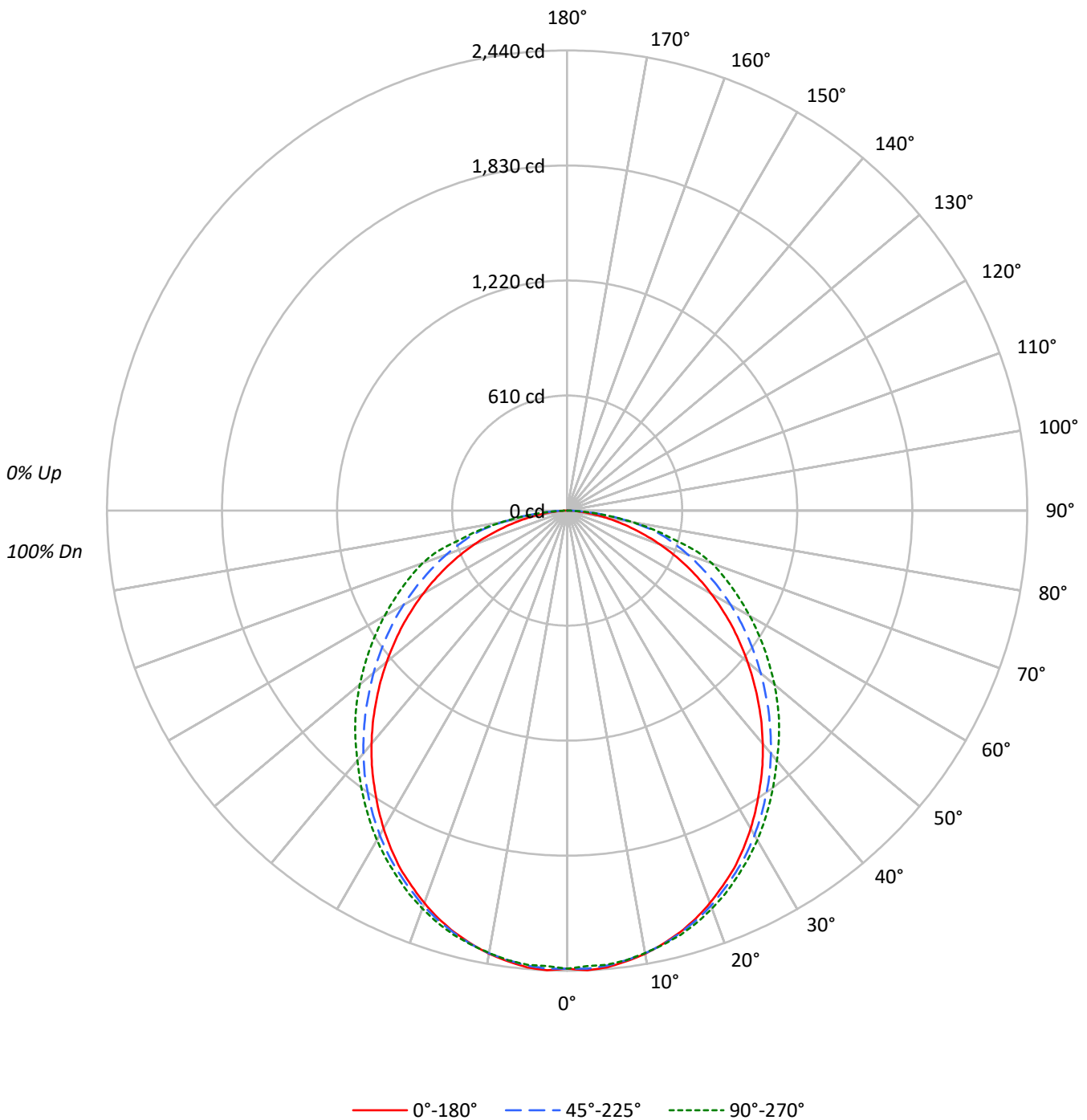
Lumens per Lamp: N/A  
Luminaire Lumens: 6708.6 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

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

	0°	45°	90°
0°	3268	3268	3268
5°	3276	3256	3251
10°	3246	3227	3226
15°	3203	3185	3200
20°	3142	3133	3158
25°	3073	3066	3102
30°	2981	2995	3047
35°	2879	2913	2979
40°	2776	2826	2916
45°	2660	2731	2880
50°	2541	2637	2835
55°	2417	2551	2795
60°	2274	2470	2769
65°	2118	2393	2773
70°	1923	2338	2826
75°	1667	2315	2523
80°	1333	2021	2102
85°	885	1309	1228



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.6	3.4
10°-20°	653.0	9.7
20°-30°	973.2	14.5
30°-40°	1145.6	17.1
40°-50°	1164.2	17.4
50°-60°	1046.7	15.6
60°-70°	826.9	12.3
70°-80°	524.6	7.8
80°-90°	144.8	2.2
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°	1855.8	27.7
0°-40°	3001.4	44.7
0°-60°	5212.3	77.7
0°-90°	6708.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6708.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2429	2429	2429	2429	2429	
5°	2431	2411	2422	2418	2418	230
15°	2315	2304	2319	2326	2328	652
25°	2094	2092	2116	2130	2138	963
35°	1784	1795	1839	1859	1877	1116
45°	1433	1453	1511	1556	1589	1106
55°	1067	1094	1170	1246	1277	953
65°	701	737	837	929	964	694
75°	350	411	534	580	576	373
85°	74	127	136	125	125	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2428.6	2428.6	2428.6	2428.6	2428.6
2.5°	2439.8	2421.9	2430.9	2426.4	2417.5
5°	2430.9	2410.8	2421.9	2417.5	2417.5
7.5°	2410.8	2395.1	2404.1	2401.8	2404.1
10°	2386.2	2370.6	2384.0	2384.0	2381.8
12.5°	2352.7	2339.3	2355.0	2355.0	2357.2
15°	2314.8	2303.6	2319.2	2325.9	2328.2
17.5°	2267.9	2256.7	2276.8	2283.5	2290.2
20°	2214.3	2209.9	2230.0	2236.7	2245.6
22.5°	2154.1	2154.1	2174.2	2183.1	2196.5
25°	2093.8	2091.6	2116.1	2129.5	2138.4
27.5°	2022.4	2024.6	2055.8	2069.2	2080.4
30°	1946.5	1950.9	1986.7	2002.3	2017.9
32.5°	1866.1	1875.0	1915.2	1933.1	1948.7
35°	1783.5	1794.7	1839.3	1859.4	1877.3
37.5°	1700.9	1716.6	1763.4	1783.5	1803.6
40°	1613.9	1627.3	1680.8	1705.4	1729.9
42.5°	1524.6	1542.4	1596.0	1631.7	1660.8
45°	1433.1	1453.2	1511.2	1555.8	1589.3
47.5°	1341.5	1368.3	1424.1	1484.4	1513.4
50°	1250.0	1276.8	1339.3	1406.3	1435.3
52.5°	1156.3	1183.1	1254.5	1323.7	1354.9
55°	1067.0	1093.8	1169.7	1245.6	1276.8
57.5°	973.2	1002.3	1087.1	1165.2	1196.5
60°	881.7	910.7	1002.3	1084.8	1118.3
62.5°	792.4	823.7	919.7	1006.7	1040.2
65°	700.9	736.6	837.1	928.6	964.3
67.5°	611.6	651.8	756.7	852.7	890.6
70°	522.3	569.2	680.8	779.0	817.0
72.5°	435.3	486.6	604.9	703.1	723.2
75°	350.5	410.7	533.5	580.4	575.9
77.5°	270.1	337.1	453.1	462.1	475.5
80°	196.4	270.1	339.3	357.2	348.2
82.5°	129.5	203.1	243.3	234.4	232.1
85°	73.7	127.2	136.2	125.0	125.0
87.5°	31.3	51.3	44.6	33.5	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)