

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-LD5-50-UNV-L840-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-LD5-50-UNV-L840-CD1-U  
Description: CRUZE 2x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

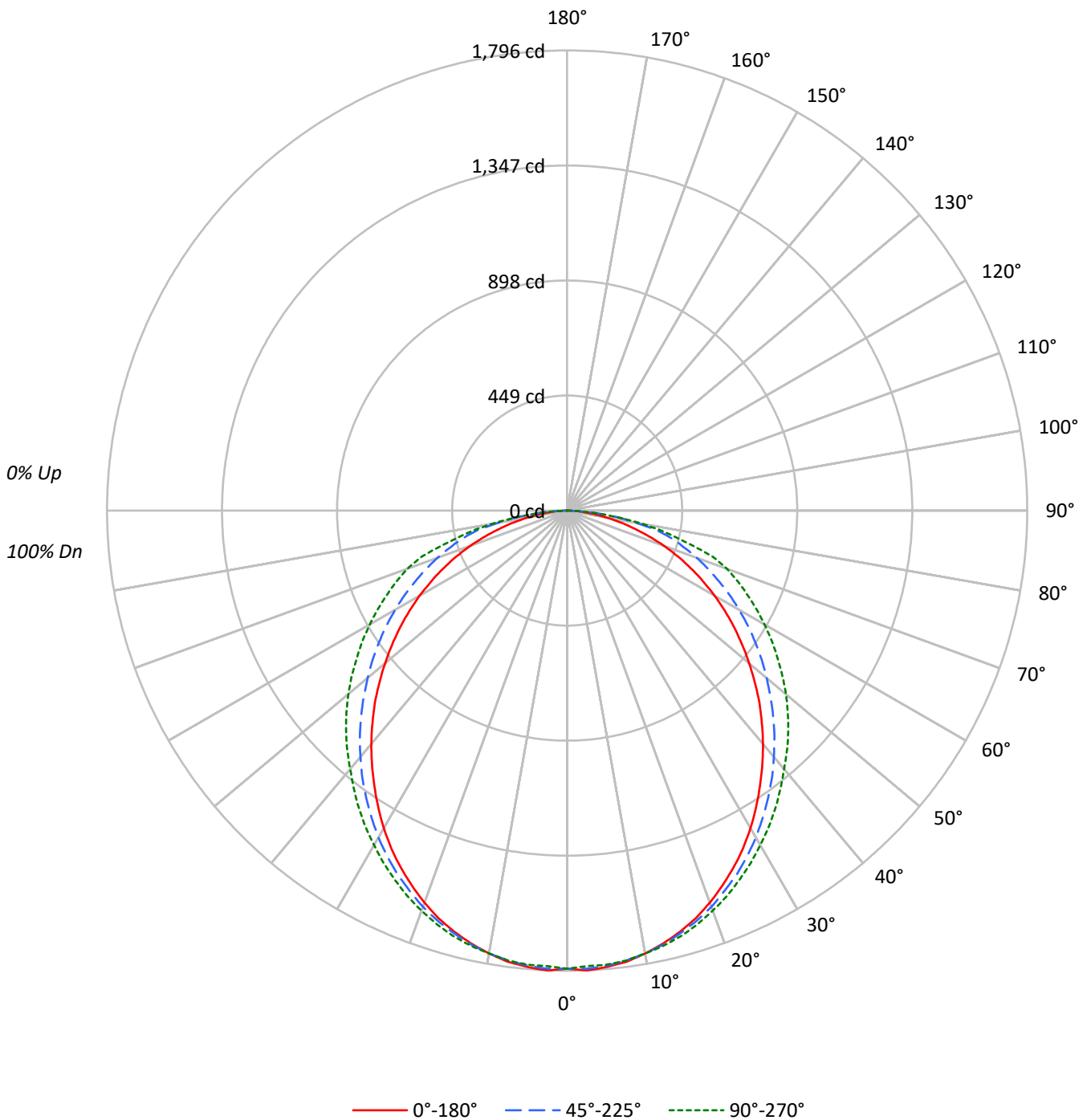
Lumens per Lamp: N/A  
Luminaire Lumens: 5087.7 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 40.68  
Input Voltage (V): NR  
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	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°	2406	2406	2406
5°	2410	2397	2393
10°	2387	2376	2377
15°	2354	2346	2362
20°	2311	2312	2336
25°	2255	2269	2308
30°	2192	2220	2276
35°	2118	2165	2250
40°	2045	2110	2220
45°	1970	2055	2211
50°	1886	2000	2202
55°	1803	1955	2194
60°	1714	1911	2203
65°	1611	1870	2230
70°	1478	1848	2293
75°	1292	1840	2108
80°	1057	1618	1787
85°	728	1048	1020



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.1	3.3
10°-20°	481.2	9.5
20°-30°	719.3	14.1
30°-40°	853.0	16.8
40°-50°	877.2	17.2
50°-60°	802.4	15.8
60°-70°	647.1	12.7
70°-80°	420.1	8.3
80°-90°	118.2	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°	1369.6	26.9
0°-40°	2222.6	43.7
0°-60°	3902.2	76.7
0°-90°	5087.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5087.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1788	1776	1783	1779	1779	170
15°	1701	1693	1708	1715	1719	480
25°	1537	1537	1566	1578	1591	708
35°	1312	1324	1367	1395	1418	821
45°	1061	1080	1137	1189	1220	818
55°	796	822	896	968	1002	712
65°	533	564	654	739	775	527
75°	272	322	424	476	481	290
85°	61	100	109	107	104	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1787.9	1787.9	1787.9	1787.9	1787.9
2.5°	1796.5	1782.7	1789.6	1786.2	1779.2
5°	1787.9	1775.8	1782.7	1779.2	1779.2
7.5°	1775.8	1763.7	1770.6	1770.6	1770.6
10°	1755.0	1744.6	1755.0	1755.0	1755.0
12.5°	1730.8	1722.1	1734.2	1736.0	1739.4
15°	1701.3	1692.7	1708.3	1715.2	1718.7
17.5°	1668.5	1661.5	1678.8	1687.5	1692.7
20°	1628.7	1623.5	1646.0	1654.6	1661.5
22.5°	1583.7	1583.7	1606.2	1616.5	1628.7
25°	1536.9	1536.9	1566.3	1578.5	1590.6
27.5°	1486.7	1488.5	1521.3	1538.7	1550.8
30°	1431.3	1438.3	1472.9	1493.7	1507.5
32.5°	1372.5	1381.2	1421.0	1446.9	1464.2
35°	1311.9	1324.0	1367.3	1395.0	1417.5
37.5°	1251.3	1266.9	1313.7	1344.8	1367.3
40°	1189.0	1206.3	1254.8	1291.2	1317.1
42.5°	1125.0	1144.0	1197.7	1239.2	1270.4
45°	1061.0	1080.0	1137.1	1189.0	1220.2
47.5°	993.5	1016.0	1076.5	1137.1	1168.3
50°	927.7	951.9	1016.0	1081.7	1114.6
52.5°	861.9	889.6	957.1	1026.3	1059.2
55°	796.2	822.1	896.5	967.5	1002.1
57.5°	730.4	758.1	836.0	910.4	946.7
60°	664.6	694.0	775.4	853.3	889.6
62.5°	597.1	628.3	714.8	796.2	832.5
65°	533.1	564.2	654.2	739.0	775.4
67.5°	467.3	501.9	595.4	681.9	720.0
70°	401.5	439.6	538.3	624.8	662.9
72.5°	335.8	379.0	479.4	566.0	593.7
75°	271.7	321.9	424.0	476.0	481.2
77.5°	212.9	264.8	361.7	382.5	392.9
80°	155.8	212.9	271.7	297.7	296.0
82.5°	103.8	162.7	195.6	199.0	195.6
85°	60.6	100.4	109.0	107.3	103.8
87.5°	26.0	39.8	34.6	29.4	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)