

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: P230527

Luminaire Tested: **24CZ-LD5-60SE-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-60SE-RDP-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3767.9 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

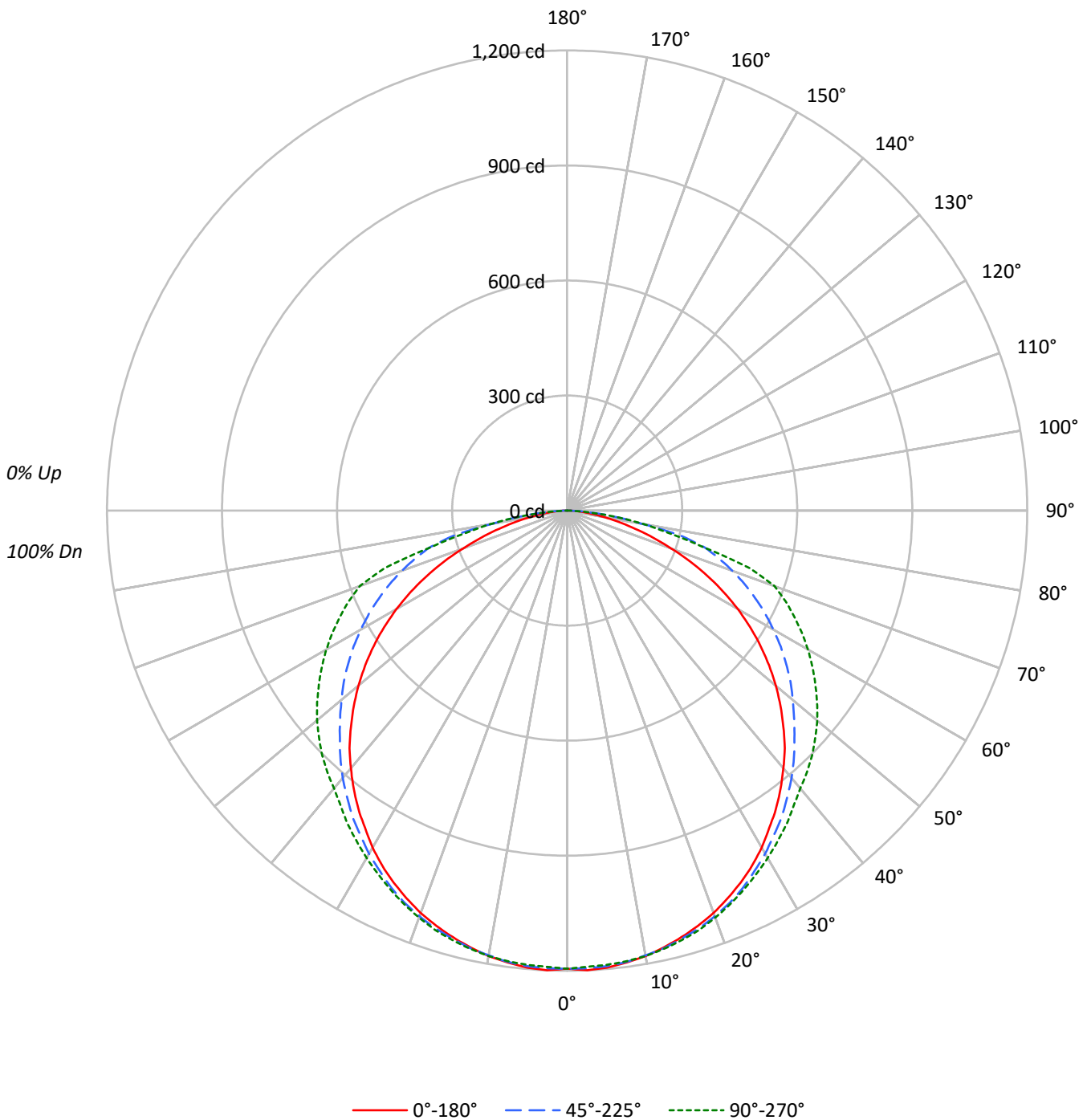
Input Watts (W): 60
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1607	1607	1607
5°	1616	1611	1606
10°	1612	1609	1612
15°	1604	1610	1615
20°	1599	1612	1617
25°	1589	1611	1619
30°	1576	1605	1625
35°	1560	1602	1639
40°	1541	1600	1661
45°	1517	1595	1719
50°	1487	1607	1782
55°	1445	1636	1853
60°	1383	1672	1951
65°	1287	1724	2079
70°	1138	1802	2262
75°	954	1929	1900
80°	762	1523	1581
85°	602	1031	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	3.0
10°-20°	326.0	8.7
20°-30°	498.0	13.2
30°-40°	608.9	16.2
40°-50°	651.7	17.3
50°-60°	625.1	16.6
60°-70°	527.8	14.0
70°-80°	337.3	9.0
80°-90°	79.8	2.1
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°	937.3	24.9
0°-40°	1546.2	41.0
0°-60°	2823.0	74.9
0°-90°	3767.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3767.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1196	1189	1193	1191	1189	114
15°	1152	1148	1156	1159	1159	325
25°	1070	1068	1085	1089	1091	493
35°	950	957	976	989	998	594
45°	798	810	838	877	903	615
55°	616	636	697	760	790	550
65°	404	443	542	618	653	399
75°	184	262	371	378	365	198
85°	39	65	67	65	61	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.5	1194.5	1194.5	1194.5	1194.5
2.5°	1200.0	1192.6	1194.5	1194.5	1190.8
5°	1196.3	1188.9	1192.6	1190.8	1188.9
7.5°	1188.9	1183.3	1187.0	1187.0	1185.2
10°	1179.6	1174.1	1177.8	1179.6	1179.6
12.5°	1166.6	1162.9	1168.5	1168.5	1170.4
15°	1151.8	1148.1	1155.5	1159.2	1159.2
17.5°	1135.1	1133.3	1142.5	1144.4	1146.2
20°	1116.6	1114.7	1125.8	1125.8	1129.6
22.5°	1094.3	1092.5	1107.3	1107.3	1111.0
25°	1070.2	1068.3	1085.0	1088.7	1090.6
27.5°	1044.2	1042.4	1059.1	1064.6	1068.3
30°	1014.6	1014.6	1033.1	1040.5	1046.1
32.5°	981.2	986.7	1003.4	1014.6	1022.0
35°	949.6	957.1	975.6	988.6	997.9
37.5°	914.4	921.8	942.2	958.9	970.0
40°	877.3	886.6	910.7	929.2	945.9
42.5°	840.2	849.5	875.4	903.3	925.5
45°	797.5	810.5	838.4	877.3	903.3
47.5°	754.9	767.9	803.1	851.3	877.3
50°	710.4	725.2	767.9	823.5	851.3
52.5°	664.0	680.7	734.5	793.8	821.7
55°	615.8	636.2	697.4	760.5	790.1
57.5°	565.7	588.0	660.3	727.1	758.6
60°	513.8	541.6	621.3	691.8	725.2
62.5°	460.0	493.4	582.4	654.7	690.0
65°	404.3	443.3	541.6	617.6	652.9
67.5°	346.8	398.8	500.8	580.5	615.8
70°	289.3	350.6	458.1	539.7	575.0
72.5°	235.6	306.0	415.5	491.5	498.9
75°	183.6	261.5	371.0	378.4	365.4
77.5°	137.3	217.0	306.0	272.7	270.8
80°	98.3	174.3	196.6	202.2	204.0
82.5°	64.9	131.7	128.0	131.7	129.8
85°	39.0	64.9	66.8	64.9	61.2
87.5°	18.5	24.1	18.5	16.7	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)