

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: P230529

Luminaire Tested: **24CZ-LD5-65SE-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230529
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-LD5-65SE-RDP-UNV-L935-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3706.0 lumens
Efficiency: N/A
Efficacy: 61.8 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

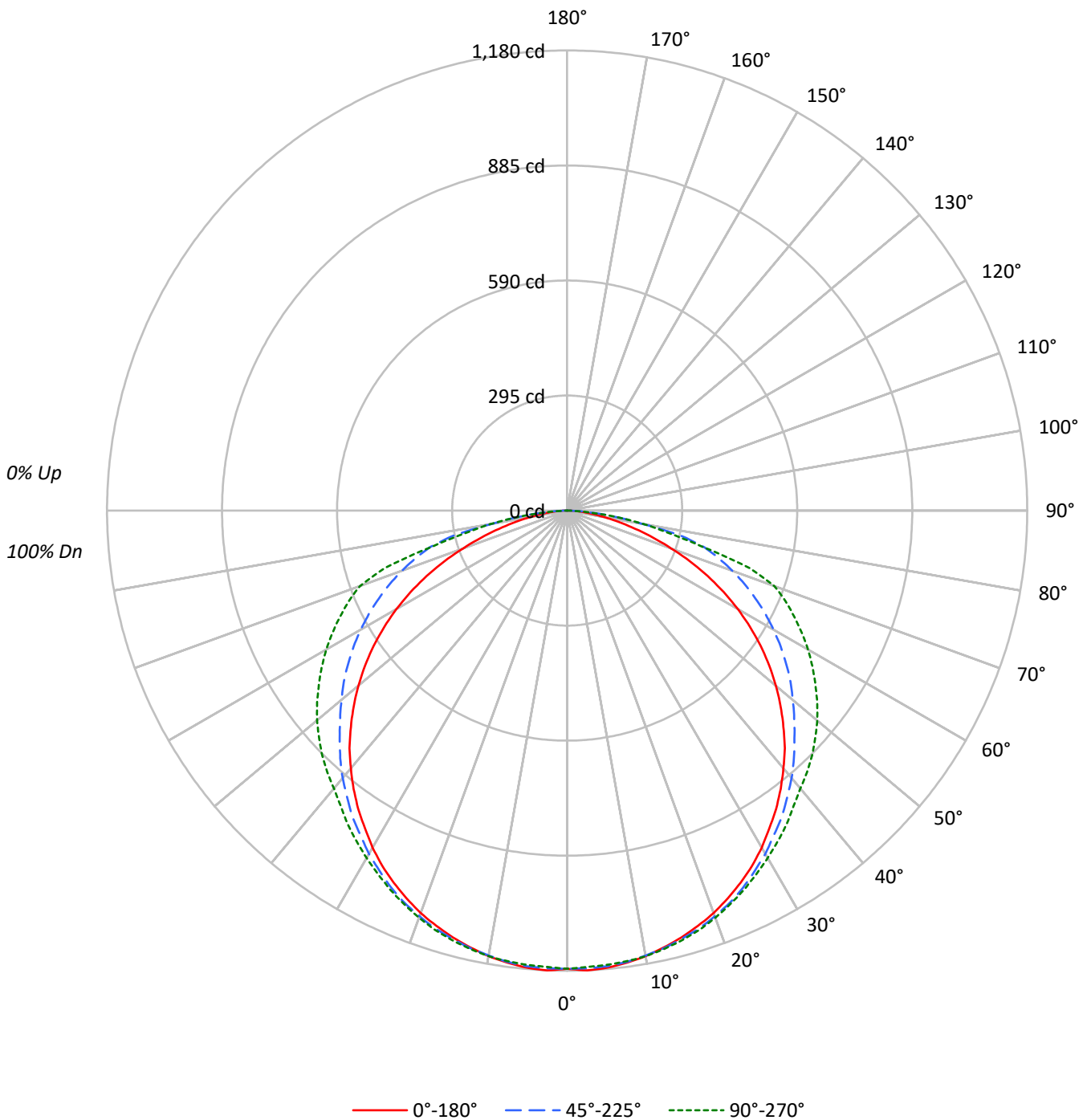
Input Watts (W): 60
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1581	1581	1581
5°	1589	1584	1579
10°	1585	1583	1585
15°	1578	1583	1588
20°	1572	1585	1591
25°	1563	1584	1593
30°	1550	1579	1599
35°	1534	1576	1612
40°	1516	1573	1634
45°	1493	1569	1690
50°	1463	1581	1753
55°	1421	1609	1823
60°	1360	1644	1919
65°	1266	1696	2045
70°	1120	1773	2225
75°	939	1897	1868
80°	749	1499	1555
85°	591	1014	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.0
10°-20°	320.7	8.7
20°-30°	489.8	13.2
30°-40°	598.8	16.2
40°-50°	641.0	17.3
50°-60°	614.8	16.6
60°-70°	519.1	14.0
70°-80°	331.8	9.0
80°-90°	78.5	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°	922.0	24.9
0°-40°	1520.8	41.0
0°-60°	2776.6	74.9
0°-90°	3706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1177	1169	1173	1171	1169	112
15°	1133	1129	1136	1140	1140	320
25°	1053	1051	1067	1071	1073	485
35°	934	941	960	972	982	584
45°	784	797	825	863	888	605
55°	606	626	686	748	777	540
65°	398	436	533	608	642	392
75°	181	257	365	372	359	194
85°	38	64	66	64	60	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.8	1174.8	1174.8	1174.8	1174.8
2.5°	1180.3	1173.0	1174.8	1174.8	1171.2
5°	1176.7	1169.4	1173.0	1171.2	1169.4
7.5°	1169.4	1163.9	1167.5	1167.5	1165.7
10°	1160.3	1154.8	1158.4	1160.3	1160.3
12.5°	1147.5	1143.8	1149.3	1149.3	1151.1
15°	1132.9	1129.2	1136.5	1140.2	1140.2
17.5°	1116.5	1114.6	1123.8	1125.6	1127.4
20°	1098.2	1096.4	1107.3	1107.3	1111.0
22.5°	1076.3	1074.5	1089.1	1089.1	1092.8
25°	1052.6	1050.8	1067.2	1070.9	1072.7
27.5°	1027.1	1025.3	1041.7	1047.1	1050.8
30°	997.9	997.9	1016.1	1023.4	1028.9
32.5°	965.1	970.5	986.9	997.9	1005.2
35°	934.0	941.3	959.6	972.3	981.5
37.5°	899.4	906.7	926.7	943.2	954.1
40°	862.9	872.0	895.7	914.0	930.4
42.5°	826.4	835.5	861.1	888.4	910.3
45°	784.4	797.2	824.6	862.9	888.4
47.5°	742.5	755.3	789.9	837.4	862.9
50°	698.7	713.3	755.3	810.0	837.4
52.5°	653.1	669.5	722.4	780.8	808.2
55°	605.7	625.7	685.9	748.0	777.1
57.5°	556.4	578.3	649.4	715.1	746.1
60°	505.3	532.7	611.1	680.5	713.3
62.5°	452.4	485.3	572.8	644.0	678.6
65°	397.7	436.0	532.7	607.5	642.2
67.5°	341.1	392.2	492.6	571.0	605.7
70°	284.6	344.8	450.6	530.9	565.5
72.5°	231.7	301.0	408.6	483.4	490.7
75°	180.6	257.2	364.9	372.2	359.4
77.5°	135.0	213.4	301.0	268.2	266.3
80°	96.7	171.5	193.4	198.8	200.7
82.5°	63.9	129.5	125.9	129.5	127.7
85°	38.3	63.9	65.7	63.9	60.2
87.5°	18.2	23.7	18.2	16.4	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)