

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: P230530

Luminaire Tested: **24CZ-LD5-65SE-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230530
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-L940-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3798.2 lumens
Efficiency: N/A
Efficacy: 63.3 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

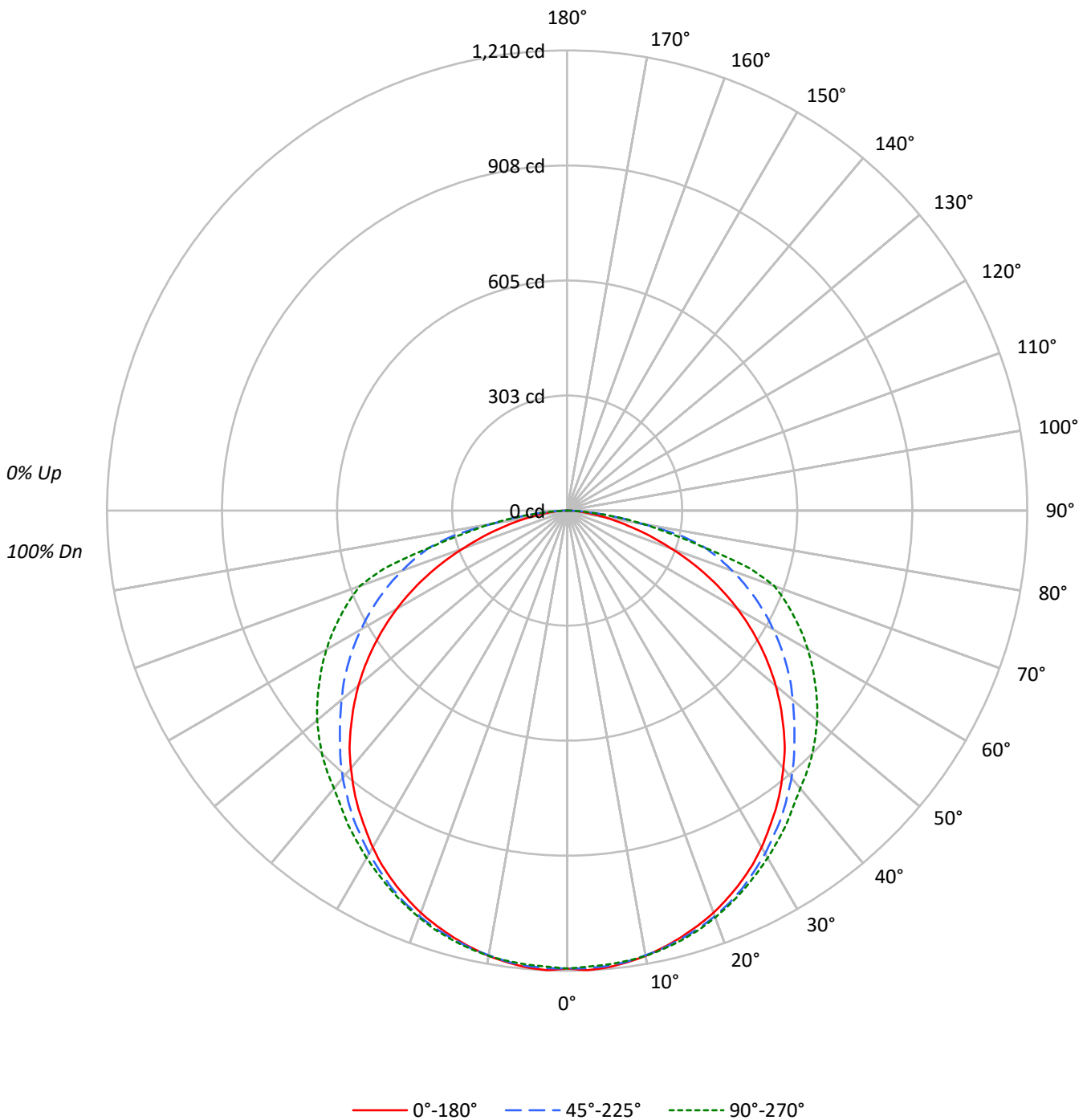
Input Watts (W): 60
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1620	1620	1620
5°	1629	1624	1619
10°	1625	1622	1625
15°	1617	1623	1628
20°	1612	1625	1630
25°	1602	1624	1632
30°	1589	1618	1638
35°	1572	1615	1652
40°	1553	1612	1675
45°	1530	1608	1733
50°	1499	1620	1796
55°	1456	1649	1868
60°	1394	1685	1967
65°	1298	1738	2095
70°	1148	1817	2280
75°	962	1944	1915
80°	768	1536	1594
85°	607	1039	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.0
10°-20°	328.7	8.7
20°-30°	502.0	13.2
30°-40°	613.7	16.2
40°-50°	656.9	17.3
50°-60°	630.1	16.6
60°-70°	532.1	14.0
70°-80°	340.0	9.0
80°-90°	80.4	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°	944.9	24.9
0°-40°	1558.6	41.0
0°-60°	2845.7	74.9
0°-90°	3798.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3798.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1206	1198	1202	1200	1198	115
15°	1161	1157	1165	1168	1168	328
25°	1079	1077	1094	1098	1099	497
35°	957	965	983	996	1006	599
45°	804	817	845	884	910	620
55°	621	641	703	767	796	554
65°	408	447	546	623	658	402
75°	185	264	374	381	368	199
85°	39	65	67	65	62	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.1	1204.1	1204.1	1204.1	1204.1
2.5°	1209.7	1202.2	1204.1	1204.1	1200.3
5°	1205.9	1198.5	1202.2	1200.3	1198.5
7.5°	1198.5	1192.9	1196.6	1196.6	1194.7
10°	1189.1	1183.5	1187.2	1189.1	1189.1
12.5°	1176.0	1172.3	1177.9	1177.9	1179.8
15°	1161.1	1157.3	1164.8	1168.5	1168.5
17.5°	1144.2	1142.4	1151.7	1153.6	1155.5
20°	1125.5	1123.7	1134.9	1134.9	1138.6
22.5°	1103.1	1101.2	1116.2	1116.2	1119.9
25°	1078.8	1076.9	1093.8	1097.5	1099.4
27.5°	1052.6	1050.8	1067.6	1073.2	1076.9
30°	1022.7	1022.7	1041.4	1048.9	1054.5
32.5°	989.1	994.7	1011.5	1022.7	1030.2
35°	957.3	964.8	983.4	996.5	1005.9
37.5°	921.7	929.2	949.8	966.6	977.8
40°	884.4	893.7	918.0	936.7	953.5
42.5°	847.0	856.3	882.5	910.5	933.0
45°	804.0	817.0	845.1	884.4	910.5
47.5°	761.0	774.0	809.6	858.2	884.4
50°	716.1	731.0	774.0	830.1	858.2
52.5°	669.3	686.2	740.4	800.2	828.3
55°	620.7	641.3	703.0	766.6	796.5
57.5°	570.3	592.7	665.6	732.9	764.7
60°	517.9	545.9	626.3	697.4	731.0
62.5°	463.7	497.3	587.1	660.0	695.5
65°	407.6	446.9	545.9	622.6	658.1
67.5°	349.6	402.0	504.8	585.2	620.7
70°	291.7	353.4	461.8	544.1	579.6
72.5°	237.4	308.5	418.8	495.5	502.9
75°	185.1	263.6	373.9	381.4	368.3
77.5°	138.4	218.8	308.5	274.8	273.0
80°	99.1	175.7	198.2	203.8	205.7
82.5°	65.4	132.7	129.0	132.7	130.9
85°	39.3	65.4	67.3	65.4	61.7
87.5°	18.7	24.3	18.7	16.8	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)