

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: P263529

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263529
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-LD5-65-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4770.0 lumens
Efficiency: N/A
Efficacy: 95.3 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

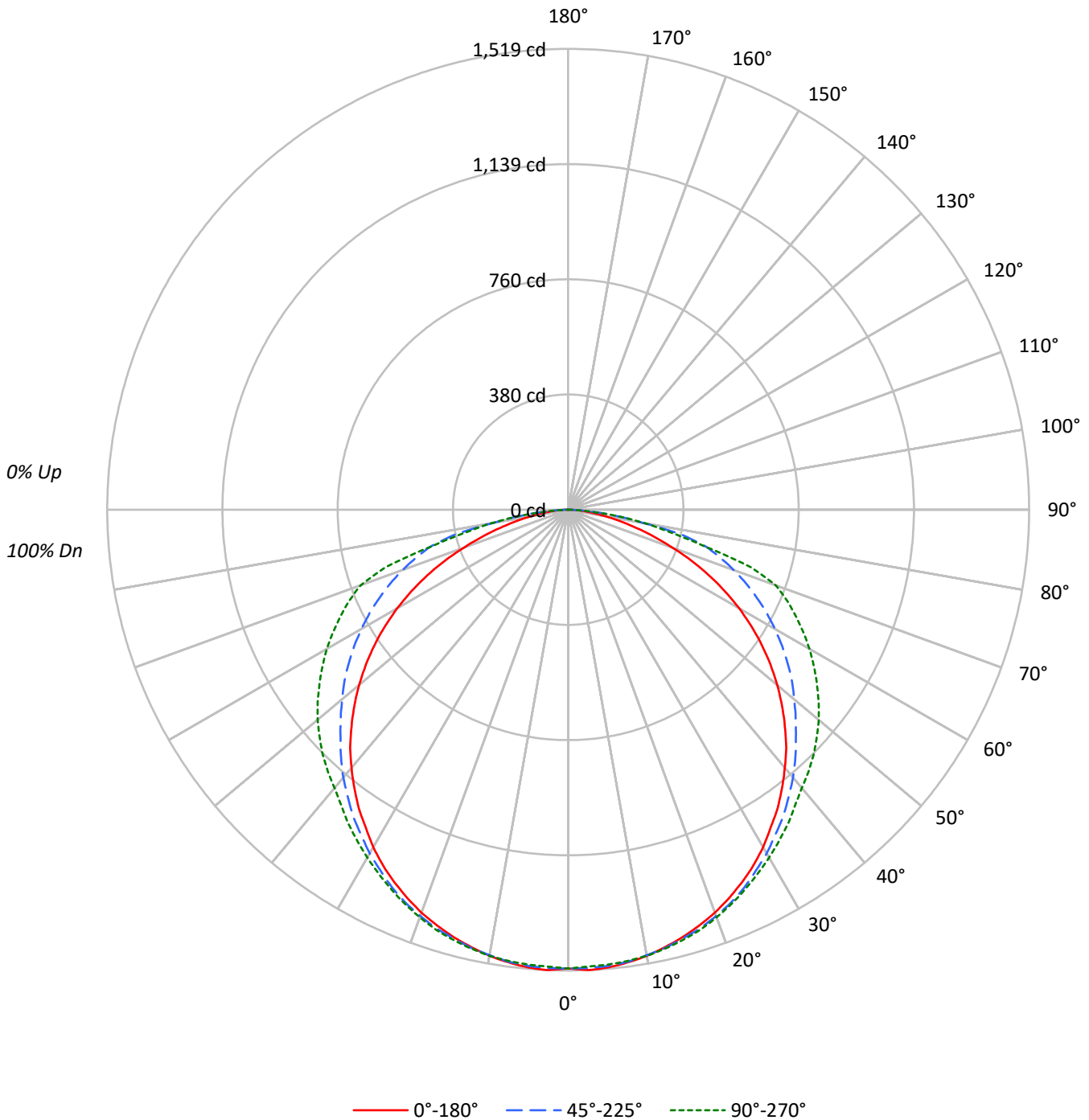
Input Watts (W): 50.043114
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263529

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P263529

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L83050-W2A1-U-4000K

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°	2035	2035	2035
5°	2046	2039	2033
10°	2040	2037	2040
15°	2031	2038	2044
20°	2024	2041	2047
25°	2011	2039	2050
30°	1995	2032	2057
35°	1975	2029	2075
40°	1951	2025	2103
45°	1921	2019	2176
50°	1882	2035	2256
55°	1829	2071	2346
60°	1750	2117	2471
65°	1630	2183	2631
70°	1441	2282	2864
75°	1209	2441	2405
80°	964	1929	2001
85°	761	1304	1196



TEST NUMBER: P263529

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.0
10°-20°	412.8	8.7
20°-30°	630.5	13.2
30°-40°	770.8	16.2
40°-50°	825.0	17.3
50°-60°	791.4	16.6
60°-70°	668.2	14.0
70°-80°	427.0	9.0
80°-90°	101.0	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°	1186.6	24.9
0°-40°	1957.4	41.0
0°-60°	3573.8	74.9
0°-90°	4770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1514	1505	1510	1507	1505	144
15°	1458	1453	1463	1468	1468	412
25°	1355	1352	1374	1378	1381	624
35°	1202	1212	1235	1252	1263	752
45°	1010	1026	1061	1111	1144	779
55°	780	805	883	963	1000	696
65°	512	561	686	782	826	505
75°	232	331	470	479	463	250
85°	49	82	84	82	78	59
90°	0	0	0	0	0	



TEST NUMBER: P263529

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.1	1512.1	1512.1	1512.1	1512.1
2.5°	1519.2	1509.8	1512.1	1512.1	1507.4
5°	1514.5	1505.1	1509.8	1507.4	1505.1
7.5°	1505.1	1498.0	1502.7	1502.7	1500.4
10°	1493.3	1486.3	1491.0	1493.3	1493.3
12.5°	1476.9	1472.2	1479.3	1479.3	1481.6
15°	1458.1	1453.4	1462.8	1467.5	1467.5
17.5°	1437.0	1434.6	1446.4	1448.7	1451.1
20°	1413.5	1411.2	1425.3	1425.3	1429.9
22.5°	1385.3	1383.0	1401.8	1401.8	1406.5
25°	1354.8	1352.5	1373.6	1378.3	1380.6
27.5°	1321.9	1319.6	1340.7	1347.8	1352.5
30°	1284.4	1284.4	1307.9	1317.2	1324.3
32.5°	1242.1	1249.2	1270.3	1284.4	1293.8
35°	1202.2	1211.6	1235.1	1251.5	1263.2
37.5°	1157.6	1167.0	1192.8	1213.9	1228.0
40°	1110.6	1122.4	1152.9	1176.4	1197.5
42.5°	1063.7	1075.4	1108.3	1143.5	1171.7
45°	1009.7	1026.1	1061.3	1110.6	1143.5
47.5°	955.6	972.1	1016.7	1077.7	1110.6
50°	899.3	918.1	972.1	1042.5	1077.7
52.5°	840.6	861.7	929.8	1005.0	1040.2
55°	779.5	805.4	882.9	962.7	1000.3
57.5°	716.1	744.3	835.9	920.4	960.3
60°	650.4	685.6	786.6	875.8	918.1
62.5°	582.3	624.6	737.3	828.9	873.5
65°	511.9	561.2	685.6	781.9	826.5
67.5°	439.1	504.8	634.0	734.9	779.5
70°	366.3	443.8	580.0	683.3	727.9
72.5°	298.2	387.4	526.0	622.2	631.6
75°	232.5	331.1	469.6	479.0	462.6
77.5°	173.8	274.7	387.4	345.2	342.8
80°	124.4	220.7	248.9	255.9	258.3
82.5°	82.2	166.7	162.0	166.7	164.4
85°	49.3	82.2	84.5	82.2	77.5
87.5°	23.5	30.5	23.5	21.1	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)