

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: P263597

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263597
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-LD5-60-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3261.6 lumens
Efficiency: N/A
Efficacy: 72.0 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

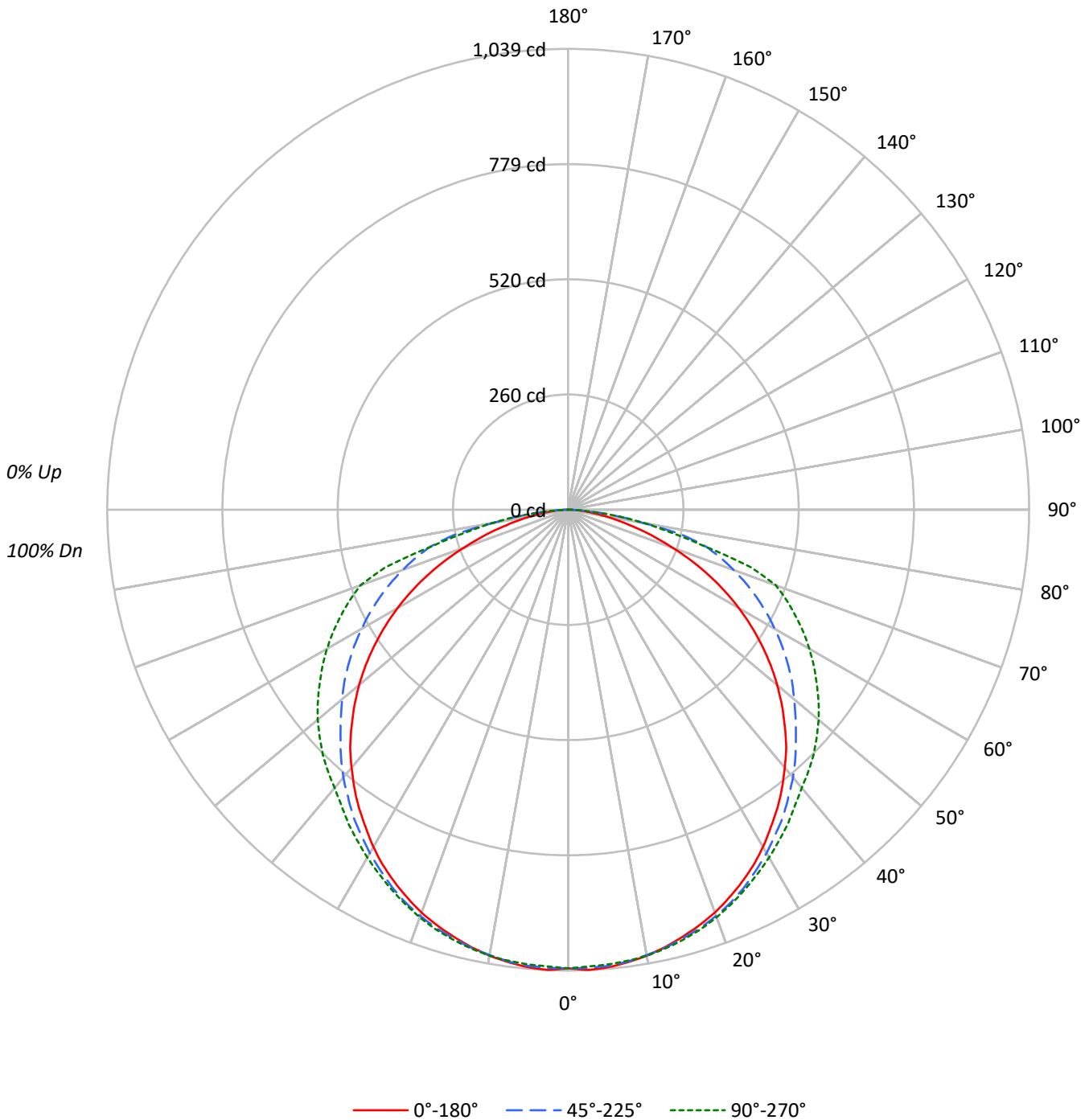
Input Watts (W): 45.286164
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1391	1391	1391
5°	1399	1394	1390
10°	1395	1393	1395
15°	1389	1393	1398
20°	1384	1395	1400
25°	1375	1394	1401
30°	1364	1389	1407
35°	1350	1387	1419
40°	1334	1385	1438
45°	1314	1381	1488
50°	1287	1391	1542
55°	1250	1416	1604
60°	1197	1447	1689
65°	1114	1493	1799
70°	985	1560	1958
75°	826	1669	1644
80°	659	1319	1368
85°	520	892	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	3.0
10°-20°	282.2	8.7
20°-30°	431.1	13.2
30°-40°	527.0	16.2
40°-50°	564.1	17.3
50°-60°	541.1	16.6
60°-70°	456.9	14.0
70°-80°	292.0	9.0
80°-90°	69.1	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°	811.4	24.9
0°-40°	1338.4	41.0
0°-60°	2443.6	74.9
0°-90°	3261.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3261.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1036	1029	1032	1031	1029	98
15°	997	994	1000	1003	1003	281
25°	926	925	939	942	944	427
35°	822	828	844	856	864	514
45°	690	702	726	759	782	532
55°	533	551	604	658	684	476
65°	350	384	469	535	565	345
75°	159	226	321	328	316	171
85°	34	56	58	56	53	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1033.9	1033.9	1033.9	1033.9	1033.9
2.5°	1038.8	1032.3	1033.9	1033.9	1030.7
5°	1035.5	1029.1	1032.3	1030.7	1029.1
7.5°	1029.1	1024.3	1027.5	1027.5	1025.9
10°	1021.1	1016.3	1019.5	1021.1	1021.1
12.5°	1009.9	1006.6	1011.5	1011.5	1013.1
15°	997.0	993.8	1000.2	1003.4	1003.4
17.5°	982.6	981.0	989.0	990.6	992.2
20°	966.5	964.9	974.5	974.5	977.8
22.5°	947.2	945.6	958.5	958.5	961.7
25°	926.4	924.8	939.2	942.4	944.0
27.5°	903.9	902.3	916.7	921.6	924.8
30°	878.2	878.2	894.3	900.7	905.5
32.5°	849.3	854.1	868.6	878.2	884.6
35°	822.0	828.4	844.5	855.7	863.8
37.5°	791.5	797.9	815.6	830.0	839.7
40°	759.4	767.4	788.3	804.4	818.8
42.5°	727.3	735.3	757.8	781.9	801.1
45°	690.4	701.6	725.7	759.4	781.9
47.5°	653.4	664.7	695.2	736.9	759.4
50°	614.9	627.8	664.7	712.8	736.9
52.5°	574.8	589.2	635.8	687.2	711.2
55°	533.0	550.7	603.7	658.3	683.9
57.5°	489.7	508.9	571.6	629.4	656.6
60°	444.7	468.8	537.8	598.9	627.8
62.5°	398.2	427.1	504.1	566.7	597.2
65°	350.0	383.7	468.8	534.6	565.1
67.5°	300.2	345.2	433.5	502.5	533.0
70°	250.5	303.4	396.6	467.2	497.7
72.5°	203.9	264.9	359.6	425.5	431.9
75°	158.9	226.4	321.1	327.5	316.3
77.5°	118.8	187.8	264.9	236.0	234.4
80°	85.1	150.9	170.2	175.0	176.6
82.5°	56.2	114.0	110.8	114.0	112.4
85°	33.7	56.2	57.8	56.2	53.0
87.5°	16.1	20.9	16.1	14.4	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)