

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: P263677

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263677
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-LD5-45-RDP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3258.0 lumens
Efficiency: N/A
Efficacy: 99.2 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

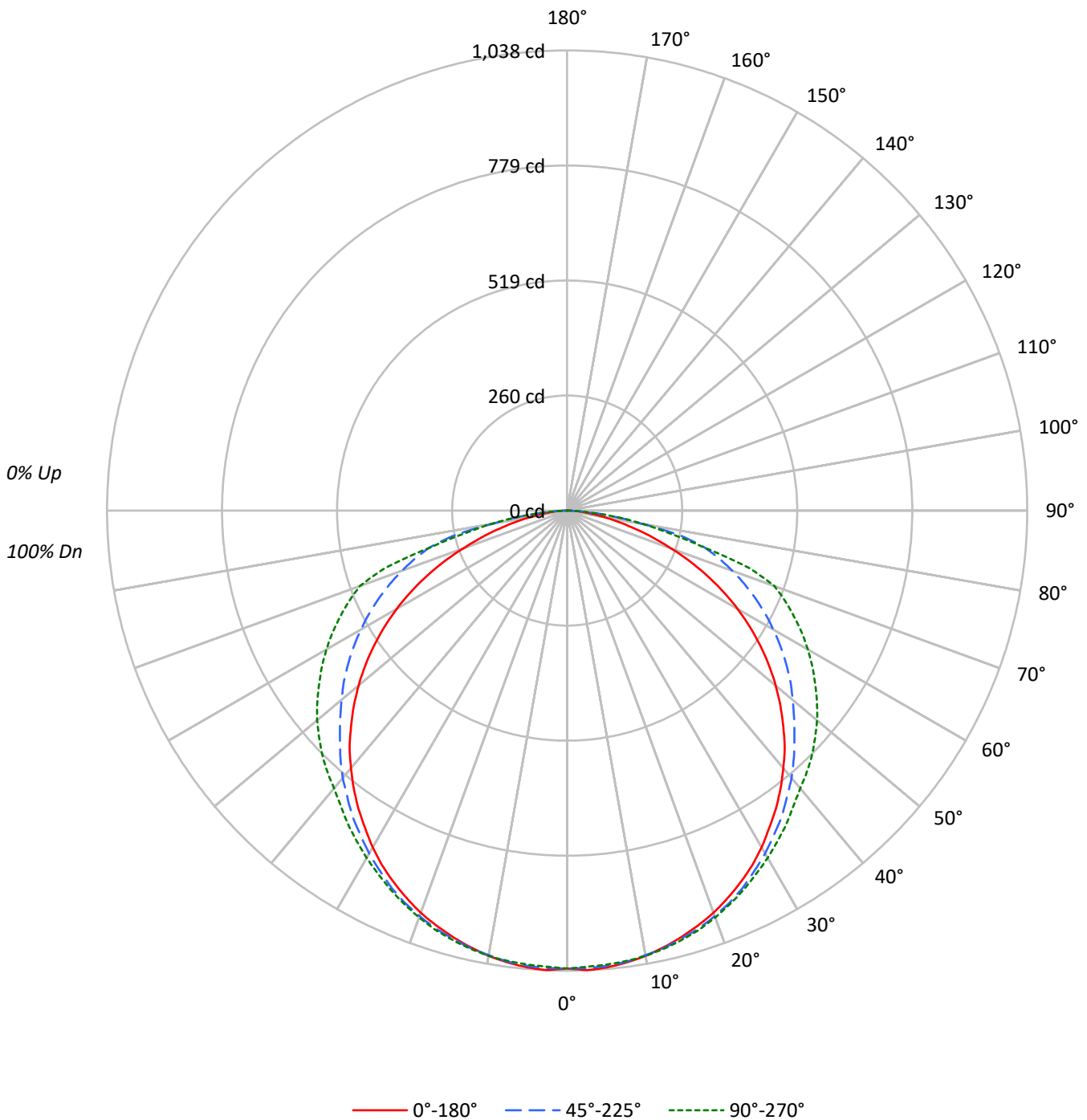
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1390	1390	1390
5°	1397	1393	1388
10°	1394	1391	1394
15°	1387	1392	1396
20°	1382	1394	1398
25°	1374	1393	1400
30°	1363	1388	1405
35°	1349	1386	1417
40°	1332	1383	1437
45°	1312	1379	1486
50°	1286	1390	1541
55°	1249	1415	1603
60°	1195	1446	1688
65°	1113	1491	1797
70°	984	1558	1956
75°	826	1667	1642
80°	659	1317	1367
85°	520	891	817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.0
10°-20°	281.9	8.7
20°-30°	430.6	13.2
30°-40°	526.5	16.2
40°-50°	563.5	17.3
50°-60°	540.5	16.6
60°-70°	456.4	14.0
70°-80°	291.7	9.0
80°-90°	69.0	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°	810.5	24.9
0°-40°	1336.9	41.0
0°-60°	2441.0	74.9
0°-90°	3258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1034	1028	1031	1030	1028	98
15°	996	993	999	1002	1002	281
25°	925	924	938	941	943	426
35°	821	828	844	855	863	513
45°	690	701	725	759	781	532
55°	532	550	603	658	683	475
65°	350	383	468	534	564	345
75°	159	226	321	327	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°	1032.8	1032.8	1032.8	1032.8	1032.8
2.5°	1037.6	1031.2	1032.8	1032.8	1029.6
5°	1034.4	1028.0	1031.2	1029.6	1028.0
7.5°	1028.0	1023.2	1026.4	1026.4	1024.8
10°	1020.0	1015.2	1018.4	1020.0	1020.0
12.5°	1008.8	1005.5	1010.4	1010.4	1012.0
15°	995.9	992.7	999.1	1002.3	1002.3
17.5°	981.5	979.9	987.9	989.5	991.1
20°	965.5	963.9	973.5	973.5	976.7
22.5°	946.2	944.6	957.4	957.4	960.6
25°	925.4	923.8	938.2	941.4	943.0
27.5°	902.9	901.3	915.7	920.6	923.8
30°	877.2	877.2	893.3	899.7	904.5
32.5°	848.4	853.2	867.6	877.2	883.7
35°	821.1	827.5	843.6	854.8	862.8
37.5°	790.6	797.1	814.7	829.1	838.8
40°	758.6	766.6	787.4	803.5	817.9
42.5°	726.5	734.5	757.0	781.0	800.3
45°	689.6	700.8	724.9	758.6	781.0
47.5°	652.7	664.0	694.4	736.1	758.6
50°	614.2	627.1	664.0	712.1	736.1
52.5°	574.1	588.6	635.1	686.4	710.5
55°	532.4	550.1	603.0	657.5	683.2
57.5°	489.1	508.4	570.9	628.7	655.9
60°	444.2	468.3	537.3	598.2	627.1
62.5°	397.7	426.6	503.6	566.1	596.6
65°	349.6	383.3	468.3	534.0	564.5
67.5°	299.9	344.8	433.0	502.0	532.4
70°	250.2	303.1	396.1	466.7	497.2
72.5°	203.7	264.6	359.2	425.0	431.4
75°	158.8	226.1	320.7	327.2	315.9
77.5°	118.7	187.6	264.6	235.8	234.1
80°	85.0	150.8	170.0	174.8	176.4
82.5°	56.1	113.9	110.7	113.9	112.3
85°	33.7	56.1	57.7	56.1	52.9
87.5°	16.0	20.8	16.0	14.4	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)