

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: P263768

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263768
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-LD5-50SE-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3190.0 lumens
Efficiency: N/A
Efficacy: 80.3 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

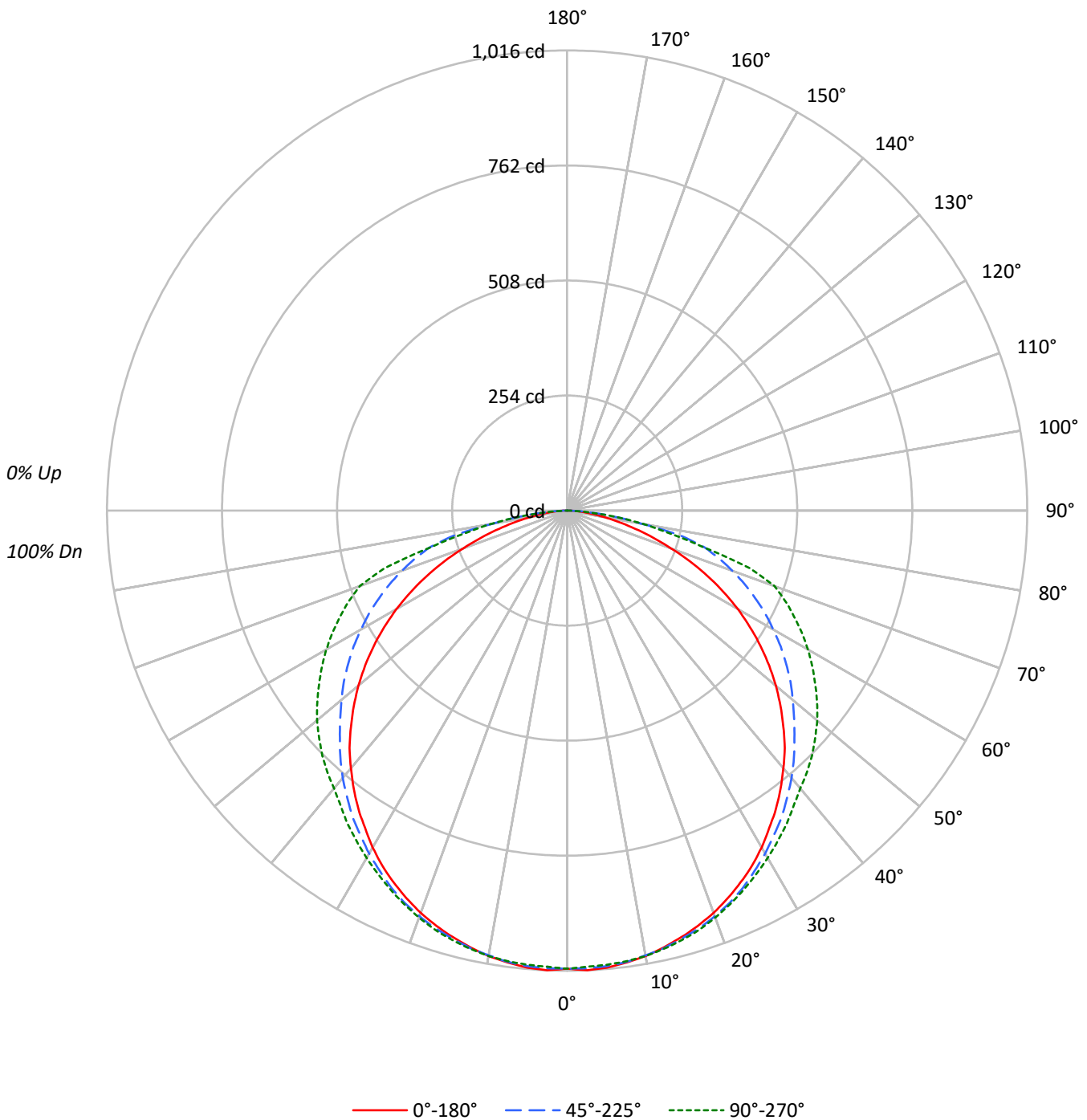
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1361	1361	1361
5°	1368	1364	1359
10°	1364	1362	1364
15°	1358	1363	1367
20°	1354	1365	1369
25°	1345	1364	1371
30°	1334	1359	1376
35°	1321	1357	1388
40°	1304	1354	1407
45°	1285	1351	1455
50°	1259	1361	1509
55°	1223	1385	1569
60°	1171	1415	1652
65°	1090	1460	1760
70°	964	1526	1915
75°	808	1633	1608
80°	645	1289	1338
85°	509	872	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	3.0
10°-20°	276.0	8.7
20°-30°	421.6	13.2
30°-40°	515.5	16.2
40°-50°	551.7	17.3
50°-60°	529.2	16.6
60°-70°	446.9	14.0
70°-80°	285.6	9.0
80°-90°	67.5	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°	793.6	24.9
0°-40°	1309.0	41.0
0°-60°	2390.0	74.9
0°-90°	3190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1013	1006	1010	1008	1006	96
15°	975	972	978	981	981	275
25°	906	904	919	922	923	418
35°	804	810	826	837	845	503
45°	675	686	710	743	765	521
55°	521	539	590	644	669	465
65°	342	375	458	523	553	338
75°	156	221	314	320	309	167
85°	33	55	56	55	52	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.3	1011.3	1011.3	1011.3	1011.3
2.5°	1016.0	1009.7	1011.3	1011.3	1008.1
5°	1012.8	1006.5	1009.7	1008.1	1006.5
7.5°	1006.5	1001.8	1005.0	1005.0	1003.4
10°	998.7	994.0	997.1	998.7	998.7
12.5°	987.7	984.6	989.3	989.3	990.8
15°	975.1	972.0	978.3	981.4	981.4
17.5°	961.0	959.4	967.3	968.9	970.4
20°	945.3	943.7	953.2	953.2	956.3
22.5°	926.5	924.9	937.5	937.5	940.6
25°	906.0	904.5	918.6	921.8	923.3
27.5°	884.1	882.5	896.6	901.3	904.5
30°	858.9	858.9	874.6	880.9	885.6
32.5°	830.7	835.4	849.5	858.9	865.2
35°	804.0	810.3	826.0	837.0	844.8
37.5°	774.1	780.4	797.7	811.8	821.3
40°	742.7	750.6	771.0	786.7	800.8
42.5°	711.3	719.2	741.2	764.7	783.6
45°	675.2	686.2	709.8	742.7	764.7
47.5°	639.1	650.1	679.9	720.8	742.7
50°	601.4	614.0	650.1	697.2	720.8
52.5°	562.2	576.3	621.8	672.1	695.6
55°	521.3	538.6	590.4	643.8	668.9
57.5°	478.9	497.8	559.0	615.5	642.2
60°	435.0	458.5	526.0	585.7	614.0
62.5°	389.4	417.7	493.1	554.3	584.1
65°	342.3	375.3	458.5	522.9	552.7
67.5°	293.6	337.6	424.0	491.5	521.3
70°	245.0	296.8	387.9	456.9	486.8
72.5°	199.4	259.1	351.7	416.1	422.4
75°	155.5	221.4	314.1	320.3	309.3
77.5°	116.2	183.7	259.1	230.8	229.3
80°	83.2	147.6	166.4	171.2	172.7
82.5°	55.0	111.5	108.3	111.5	109.9
85°	33.0	55.0	56.5	55.0	51.8
87.5°	15.7	20.4	15.7	14.1	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)