

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: P260843

Luminaire Tested: **24CZ-LD5-30-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2882.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

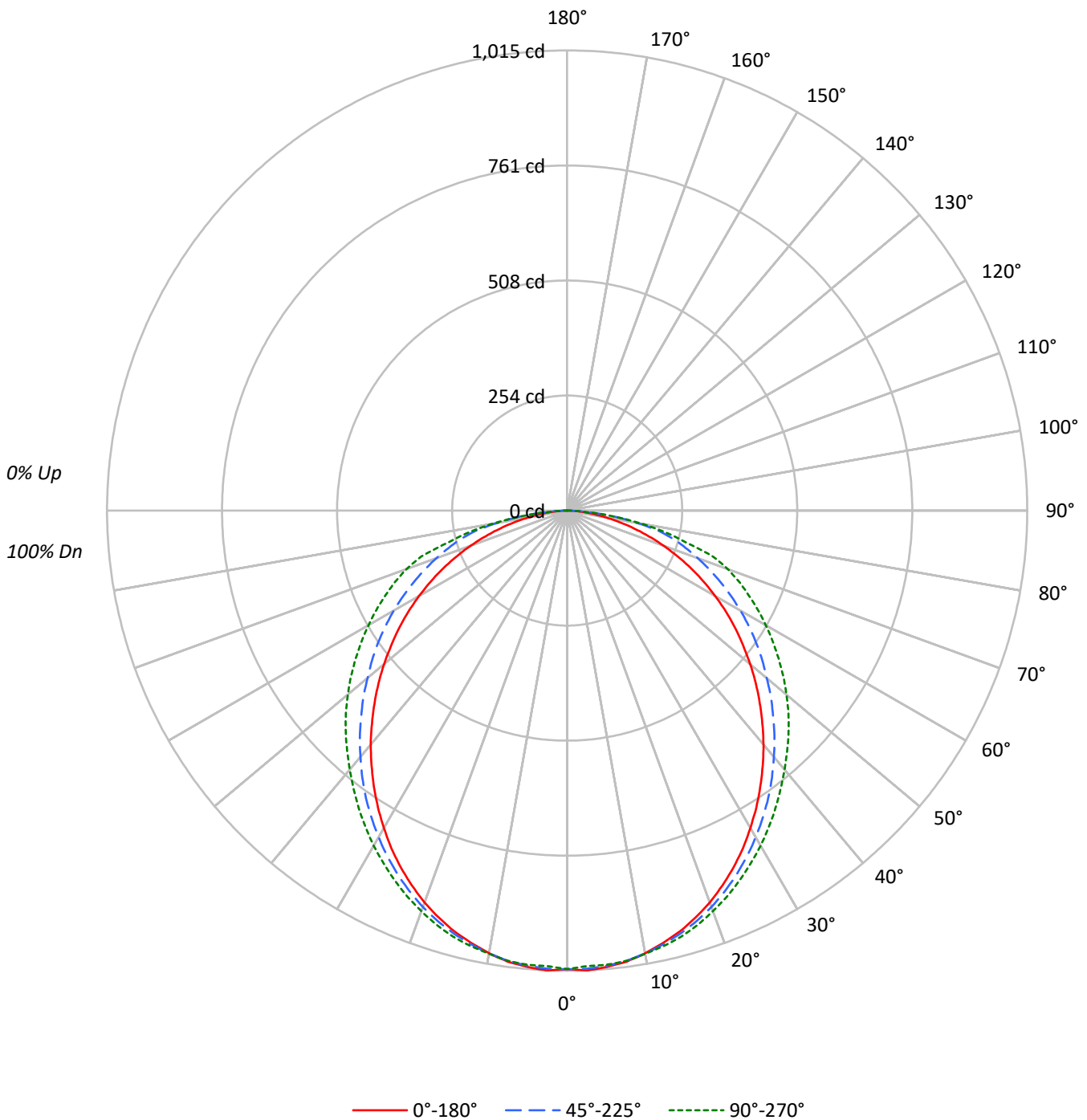
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1361	1361	1361
5°	1365	1361	1358
10°	1355	1355	1356
15°	1339	1346	1355
20°	1317	1332	1347
25°	1289	1314	1336
30°	1256	1292	1326
35°	1220	1271	1316
40°	1184	1246	1310
45°	1143	1222	1314
50°	1103	1202	1322
55°	1062	1194	1336
60°	1014	1187	1362
65°	961	1188	1408
70°	889	1207	1483
75°	795	1262	1411
80°	665	1208	1292
85°	503	929	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	3.3
10°-20°	272.0	9.4
20°-30°	406.7	14.1
30°-40°	482.4	16.7
40°-50°	496.5	17.2
50°-60°	455.5	15.8
60°-70°	368.3	12.8
70°-80°	239.0	8.3
80°-90°	65.9	2.3
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°	774.3	26.9
0°-40°	1256.7	43.6
0°-60°	2208.7	76.6
0°-90°	2882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1010	1004	1008	1006	1006	96
15°	961	957	966	970	973	271
25°	868	869	885	893	900	400
35°	743	749	774	790	801	465
45°	601	611	642	673	691	464
55°	453	467	509	551	569	405
65°	302	320	373	422	442	298
75°	153	182	243	271	271	163
85°	33	55	60	58	57	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.4	1011.4	1011.4	1011.4	1011.4
2.5°	1015.4	1007.5	1011.4	1010.4	1005.5
5°	1010.4	1003.5	1007.5	1006.5	1005.5
7.5°	1003.5	996.6	1001.6	1000.6	1001.6
10°	991.7	985.8	991.7	992.7	992.7
12.5°	976.9	972.0	979.9	981.8	983.8
15°	961.1	957.2	966.0	970.0	972.9
17.5°	941.4	938.4	949.3	954.2	958.1
20°	919.7	918.7	930.5	935.5	940.4
22.5°	895.0	895.0	908.8	914.7	921.6
25°	868.4	869.3	885.1	893.0	899.9
27.5°	839.7	840.7	859.5	869.3	877.2
30°	808.2	812.1	831.8	844.7	853.6
32.5°	776.6	781.5	803.2	818.0	827.9
35°	743.0	749.0	773.6	790.4	801.3
37.5°	708.5	715.4	742.0	760.8	773.6
40°	674.0	681.9	709.5	731.2	746.0
42.5°	637.4	646.3	676.9	702.6	718.4
45°	600.9	610.8	642.4	673.0	690.7
47.5°	564.4	576.3	609.8	643.4	662.1
50°	526.9	538.8	574.3	612.8	631.5
52.5°	489.4	503.2	542.7	582.2	600.9
55°	452.9	466.7	509.2	550.6	569.4
57.5°	415.4	429.2	475.6	519.0	537.8
60°	376.9	392.7	441.1	485.5	506.2
62.5°	339.4	356.2	407.5	454.9	474.6
65°	301.9	319.7	373.0	422.3	442.1
67.5°	263.5	284.2	339.4	389.8	410.5
70°	226.0	248.7	306.9	357.2	376.9
72.5°	189.5	214.1	274.3	325.6	337.5
75°	152.9	181.6	242.7	271.4	271.4
77.5°	118.4	150.0	207.2	218.1	224.0
80°	85.8	120.4	155.9	168.7	166.8
82.5°	57.2	91.8	111.5	111.5	108.5
85°	32.6	55.3	60.2	58.2	57.2
87.5°	13.8	20.7	18.7	14.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)