

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: P260378

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2443.0 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

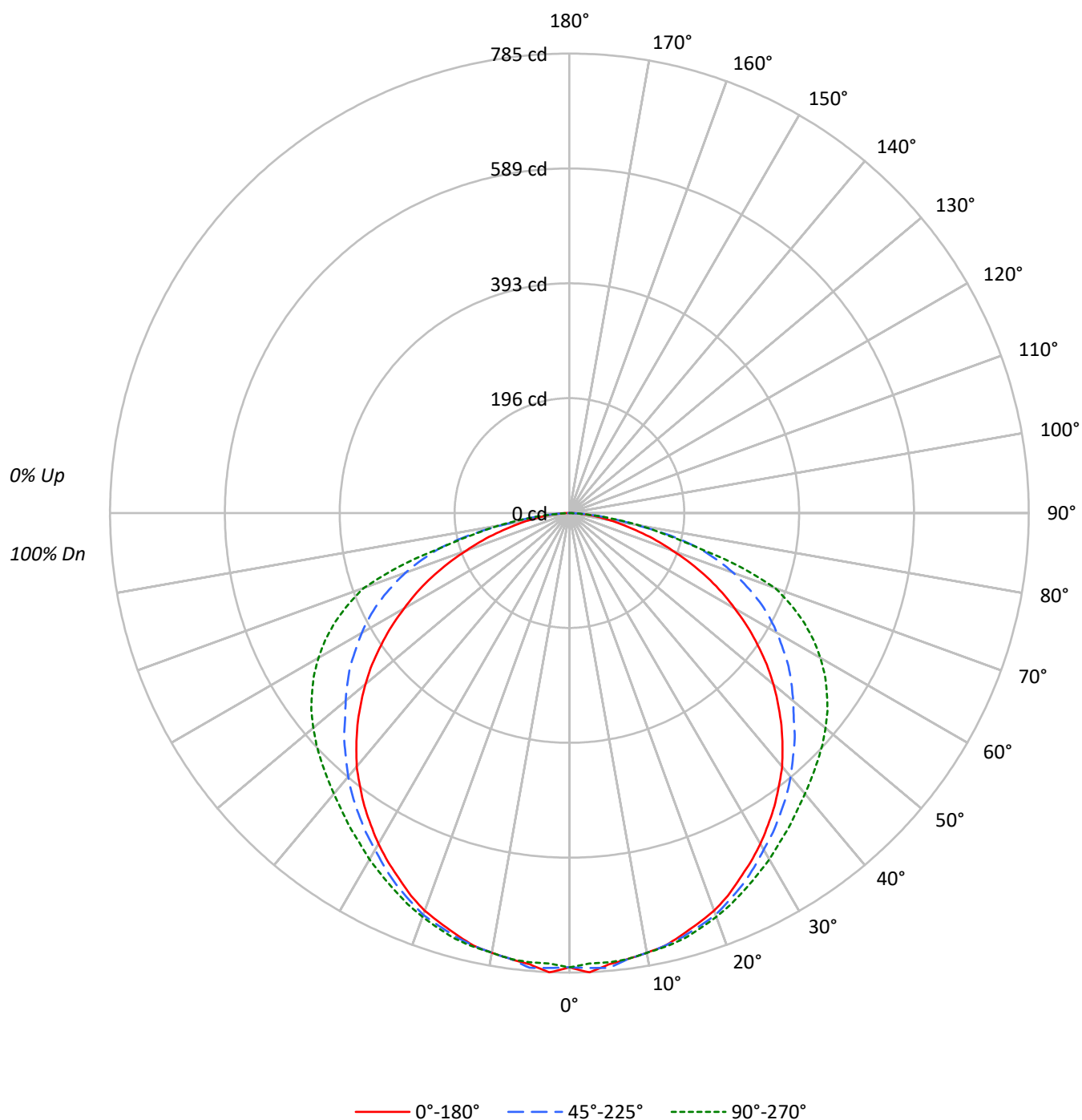
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260378

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P260378

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2088	2088	2088
5°	2091	2106	2081
10°	2084	2084	2084
15°	2077	2088	2098
20°	2070	2092	2103
25°	2045	2079	2107
30°	2028	2063	2122
35°	2007	2063	2150
40°	1986	2066	2199
45°	1949	2072	2281
50°	1906	2089	2391
55°	1842	2145	2519
60°	1756	2206	2665
65°	1655	2283	2815
70°	1478	2344	2941
75°	1282	2348	2328
80°	1088	1734	1881
85°	939	1170	1053



TEST NUMBER: P260378

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.0
10°-20°	211.6	8.7
20°-30°	322.4	13.2
30°-40°	394.5	16.1
40°-50°	424.5	17.4
50°-60°	411.2	16.8
60°-70°	348.3	14.3
70°-80°	210.6	8.6
80°-90°	46.3	1.9
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°	607.7	24.9
0°-40°	1002.2	41.0
0°-60°	1837.9	75.2
0°-90°	2443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	774	774	780	776	770	74
15°	746	748	749	751	753	211
25°	689	692	700	706	710	318
35°	611	615	628	645	654	382
45°	512	522	544	579	600	395
55°	393	410	457	510	537	351
65°	260	288	359	416	442	256
75°	123	167	226	230	224	133
85°	30	36	38	36	34	34
90°	0	0	0	0	0	



TEST NUMBER: P260378

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.0	776.0	776.0	776.0	776.0
2.5°	785.4	783.6	777.9	774.1	770.3
5°	774.1	774.1	779.8	776.0	770.3
7.5°	768.4	768.4	768.4	777.9	768.4
10°	762.7	764.6	762.7	770.3	762.7
12.5°	757.0	757.0	757.0	758.9	758.9
15°	745.6	747.5	749.4	751.3	753.2
17.5°	734.2	736.1	739.9	741.8	743.7
20°	722.8	724.7	730.4	730.4	734.2
22.5°	707.7	707.7	715.3	717.1	722.8
25°	688.7	692.5	700.1	705.8	709.6
27.5°	671.6	675.4	683.0	690.6	696.3
30°	652.6	656.4	664.0	675.4	683.0
32.5°	631.8	635.6	647.0	660.2	667.8
35°	610.9	614.7	628.0	645.1	654.5
37.5°	588.1	593.8	609.0	628.0	639.4
40°	565.4	571.1	588.1	609.0	626.1
42.5°	538.8	546.4	565.4	593.8	612.8
45°	512.2	521.7	544.5	578.7	599.5
47.5°	483.8	493.3	519.8	563.5	586.2
50°	455.3	466.7	499.0	546.4	571.1
52.5°	425.0	436.4	478.1	529.3	555.9
55°	392.7	409.8	457.2	510.4	536.9
57.5°	360.5	379.4	432.6	489.5	517.9
60°	326.3	349.1	409.8	466.7	495.2
62.5°	294.1	318.7	385.1	442.1	470.5
65°	259.9	288.4	358.6	415.5	442.1
67.5°	223.9	259.9	328.2	383.2	409.8
70°	187.8	229.6	297.9	349.1	373.8
72.5°	155.6	199.2	263.7	307.3	307.3
75°	123.3	167.0	225.8	229.6	223.9
77.5°	94.9	136.6	176.4	161.3	165.1
80°	70.2	104.3	111.9	117.6	121.4
82.5°	47.4	70.2	72.1	75.9	75.9
85°	30.4	36.0	37.9	36.0	34.1
87.5°	13.3	15.2	11.4	7.6	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)