

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: P261347

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2425.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

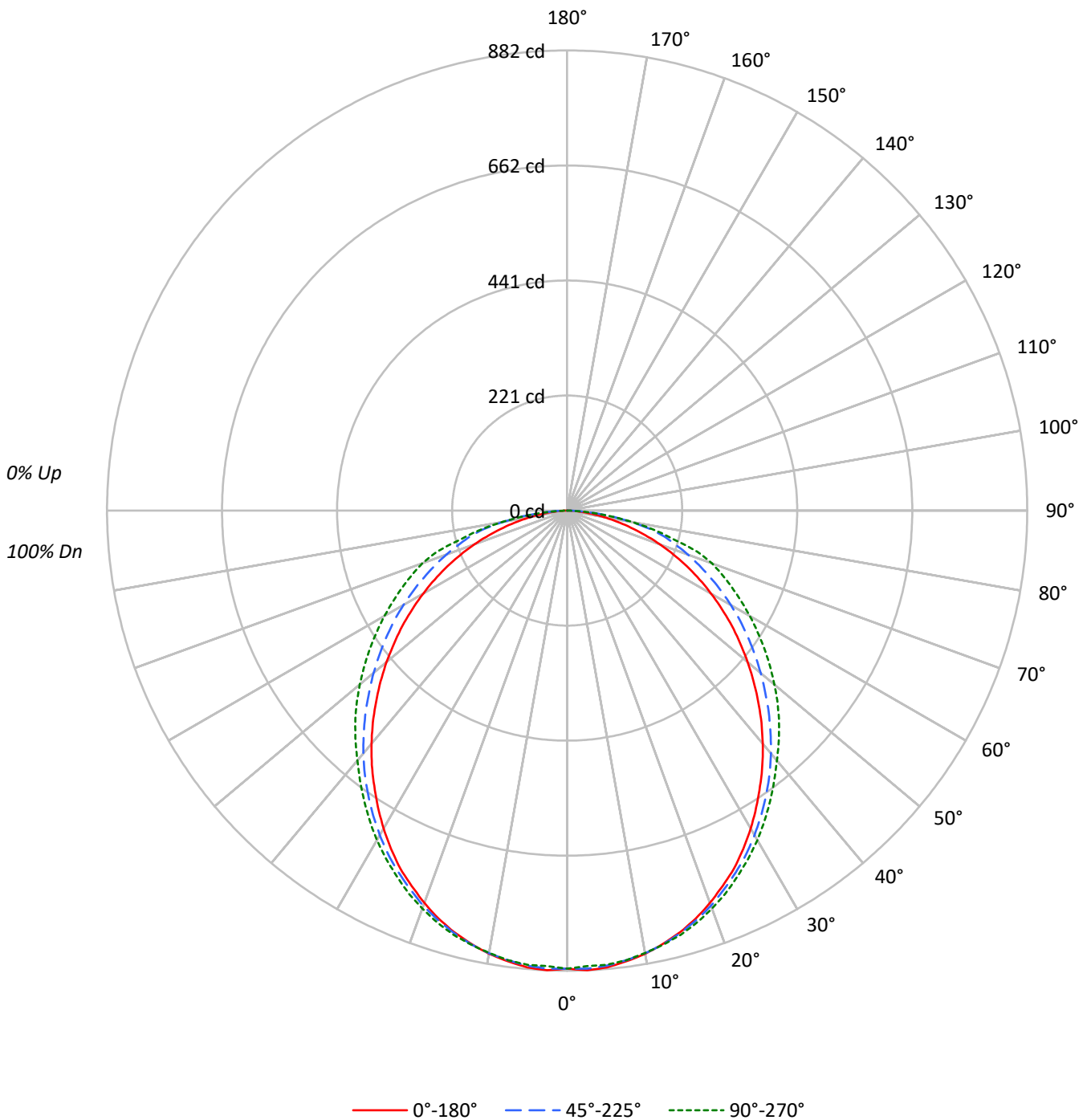
Input Watts (W): 21.669
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1181	1181	1181
5°	1187	1182	1180
10°	1179	1177	1176
15°	1165	1168	1172
20°	1146	1154	1162
25°	1124	1136	1148
30°	1093	1116	1133
35°	1059	1092	1115
40°	1025	1067	1098
45°	986	1040	1093
50°	946	1013	1086
55°	905	992	1083
60°	858	975	1088
65°	807	963	1110
70°	743	968	1162
75°	659	1002	1082
80°	550	950	976
85°	411	760	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.4
10°-20°	236.1	9.7
20°-30°	351.8	14.5
30°-40°	414.1	17.1
40°-50°	420.8	17.4
50°-60°	378.4	15.6
60°-70°	298.9	12.3
70°-80°	189.6	7.8
80°-90°	52.3	2.2
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°	670.8	27.7
0°-40°	1084.9	44.7
0°-60°	1884.1	77.7
0°-90°	2425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	879	871	876	874	874	83
15°	837	833	838	841	842	236
25°	757	756	765	770	773	348
35°	645	649	665	672	679	403
45°	518	525	546	562	574	400
55°	386	395	423	450	462	344
65°	253	266	303	336	349	251
75°	127	148	193	210	208	135
85°	27	46	49	45	45	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.9	877.9	877.9	877.9	877.9
2.5°	881.9	875.5	878.7	877.1	873.9
5°	878.7	871.4	875.5	873.9	873.9
7.5°	871.4	865.8	869.0	868.2	869.0
10°	862.6	856.9	861.8	861.8	860.9
12.5°	850.5	845.6	851.3	851.3	852.1
15°	836.7	832.7	838.4	840.8	841.6
17.5°	819.8	815.8	823.0	825.4	827.9
20°	800.4	798.8	806.1	808.5	811.7
22.5°	778.6	778.6	785.9	789.1	794.0
25°	756.9	756.1	764.9	769.8	773.0
27.5°	731.0	731.8	743.1	748.0	752.0
30°	703.6	705.2	718.1	723.8	729.4
32.5°	674.6	677.8	692.3	698.8	704.4
35°	644.7	648.7	664.9	672.1	678.6
37.5°	614.8	620.5	637.4	644.7	652.0
40°	583.4	588.2	607.6	616.5	625.3
42.5°	551.1	557.6	576.9	589.8	600.3
45°	518.0	525.3	546.3	562.4	574.5
47.5°	484.9	494.6	514.8	536.6	547.1
50°	451.9	461.5	484.1	508.3	518.8
52.5°	418.0	427.7	453.5	478.5	489.8
55°	385.7	395.4	422.8	450.2	461.5
57.5°	351.8	362.3	393.0	421.2	432.5
60°	318.7	329.2	362.3	392.1	404.3
62.5°	286.4	297.7	332.4	363.9	376.0
65°	253.4	266.3	302.6	335.7	348.6
67.5°	221.1	235.6	273.5	308.2	321.9
70°	188.8	205.8	246.1	281.6	295.3
72.5°	157.3	175.9	218.7	254.2	261.4
75°	126.7	148.5	192.8	209.8	208.2
77.5°	97.6	121.8	163.8	167.0	171.9
80°	71.0	97.6	122.6	129.1	125.9
82.5°	46.8	73.4	88.0	84.7	83.9
85°	26.6	46.0	49.2	45.2	45.2
87.5°	11.3	18.6	16.1	12.1	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)