

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: P260929

Luminaire Tested: **24CZ-LD5-30SE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260929
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-LD5-30SE-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2595.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

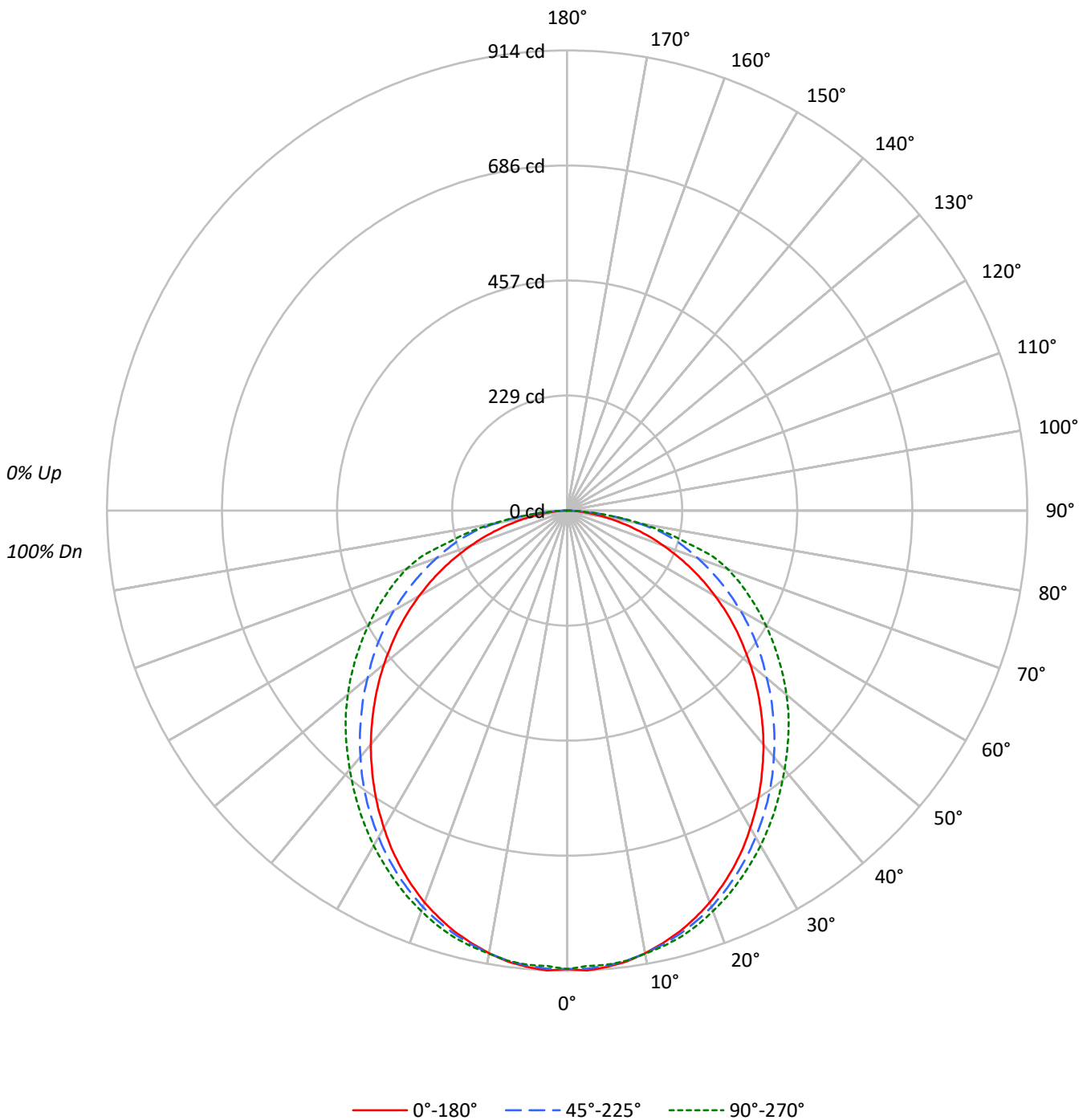
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1225	1225	1225
5°	1229	1225	1223
10°	1220	1220	1221
15°	1205	1212	1220
20°	1186	1200	1212
25°	1161	1183	1203
30°	1131	1164	1194
35°	1099	1144	1185
40°	1066	1122	1180
45°	1030	1101	1183
50°	993	1082	1190
55°	957	1076	1203
60°	913	1069	1227
65°	866	1069	1267
70°	801	1087	1335
75°	716	1136	1270
80°	599	1088	1164
85°	452	837	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	3.3
10°-20°	244.9	9.4
20°-30°	366.2	14.1
30°-40°	434.4	16.7
40°-50°	447.1	17.2
50°-60°	410.2	15.8
60°-70°	331.6	12.8
70°-80°	215.2	8.3
80°-90°	59.3	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°	697.2	26.9
0°-40°	1131.6	43.6
0°-60°	1988.8	76.6
0°-90°	2595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	910	904	907	906	905	86
15°	865	862	870	873	876	244
25°	782	783	797	804	810	360
35°	669	674	697	712	722	418
45°	541	550	578	606	622	418
55°	408	420	458	496	513	364
65°	272	288	336	380	398	269
75°	138	164	219	244	244	146
85°	29	50	54	52	52	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.7	910.7	910.7	910.7	910.7
2.5°	914.3	907.2	910.7	909.8	905.4
5°	909.8	903.6	907.2	906.3	905.4
7.5°	903.6	897.4	901.8	900.9	901.8
10°	892.9	887.6	892.9	893.8	893.8
12.5°	879.6	875.2	882.3	884.1	885.8
15°	865.4	861.8	869.8	873.4	876.1
17.5°	847.6	845.0	854.7	859.2	862.7
20°	828.1	827.2	837.9	842.3	846.7
22.5°	805.9	805.9	818.3	823.6	829.9
25°	781.9	782.8	797.0	804.1	810.3
27.5°	756.1	757.0	773.9	782.8	789.9
30°	727.7	731.2	749.0	760.6	768.6
32.5°	699.2	703.7	723.2	736.6	745.4
35°	669.0	674.4	696.6	711.7	721.5
37.5°	637.9	644.2	668.2	685.0	696.6
40°	606.8	614.0	638.8	658.4	671.7
42.5°	574.0	582.0	609.5	632.6	646.8
45°	541.1	550.0	578.4	606.0	621.9
47.5°	508.2	518.9	549.1	579.3	596.2
50°	474.5	485.1	517.1	551.8	568.6
52.5°	440.7	453.1	488.7	524.2	541.1
55°	407.8	420.3	458.5	495.8	512.7
57.5°	374.1	386.5	428.3	467.3	484.2
60°	339.4	353.6	397.2	437.1	455.8
62.5°	305.6	320.7	366.9	409.6	427.4
65°	271.9	287.9	335.9	380.3	398.0
67.5°	237.2	255.9	305.6	351.0	369.6
70°	203.5	223.9	276.3	321.6	339.4
72.5°	170.6	192.8	247.0	293.2	303.9
75°	137.7	163.5	218.6	244.3	244.3
77.5°	106.6	135.1	186.6	196.4	201.7
80°	77.3	108.4	140.4	151.9	150.2
82.5°	51.5	82.6	100.4	100.4	97.7
85°	29.3	49.8	54.2	52.4	51.5
87.5°	12.4	18.7	16.9	13.3	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)