

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: P260934

Luminaire Tested: **24CZ-LD5-30SE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260934
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2859.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

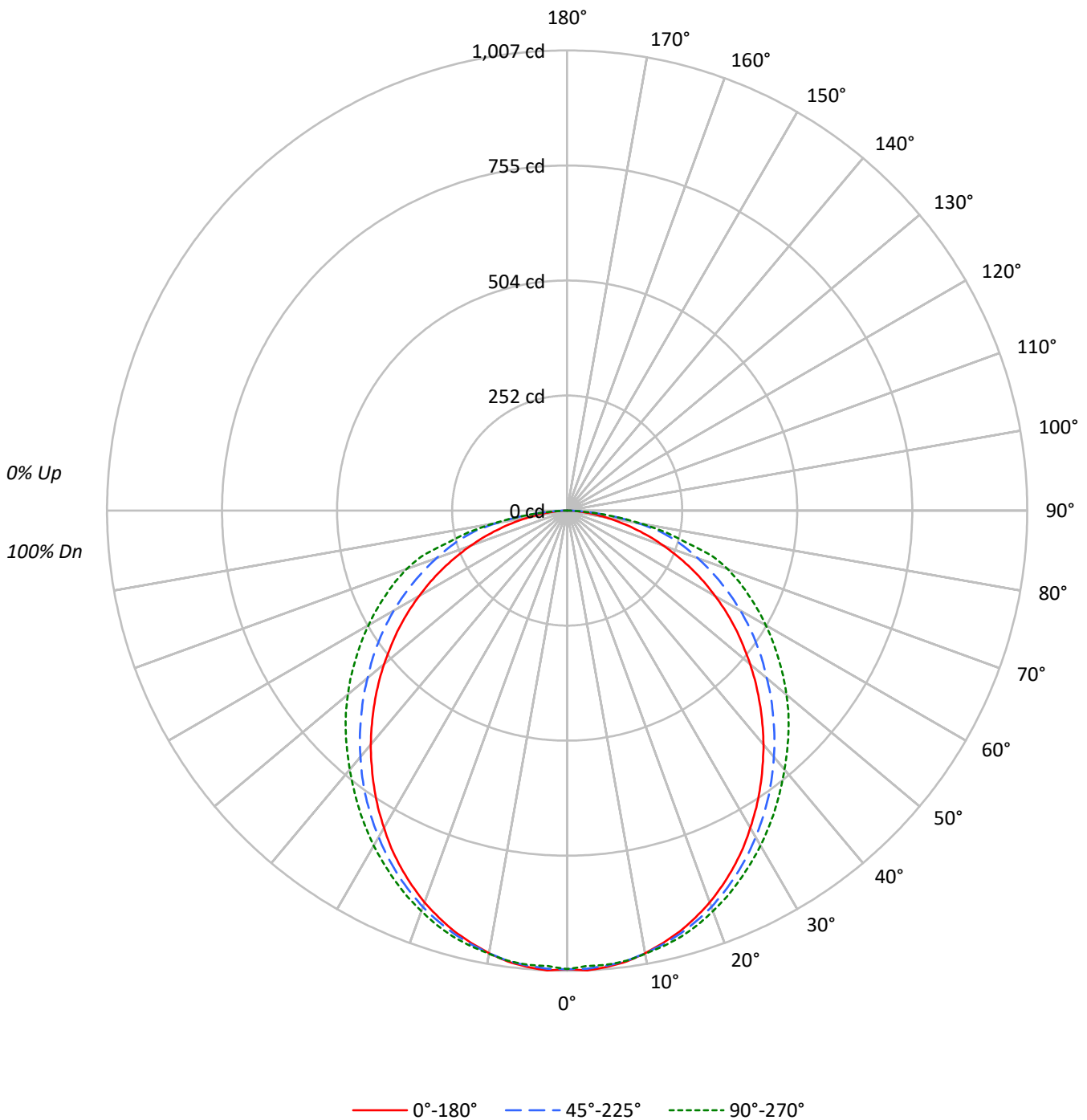
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1350	1350	1350
5°	1354	1350	1347
10°	1344	1344	1345
15°	1328	1335	1344
20°	1306	1322	1336
25°	1279	1304	1325
30°	1246	1282	1315
35°	1211	1260	1306
40°	1174	1236	1300
45°	1134	1213	1304
50°	1094	1193	1311
55°	1054	1185	1325
60°	1006	1178	1351
65°	954	1178	1396
70°	882	1197	1471
75°	789	1252	1399
80°	660	1199	1282
85°	499	922	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.3
10°-20°	269.9	9.4
20°-30°	403.4	14.1
30°-40°	478.6	16.7
40°-50°	492.6	17.2
50°-60°	451.9	15.8
60°-70°	365.4	12.8
70°-80°	237.1	8.3
80°-90°	65.4	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°	768.1	26.9
0°-40°	1246.7	43.6
0°-60°	2191.1	76.6
0°-90°	2859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1002	996	999	998	998	95
15°	953	950	958	962	965	269
25°	861	862	878	886	893	396
35°	737	743	767	784	795	461
45°	596	606	637	668	685	460
55°	449	463	505	546	565	401
65°	300	317	370	419	438	296
75°	152	180	241	269	269	161
85°	32	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°	1003.4	1003.4	1003.4	1003.4	1003.4
2.5°	1007.3	999.4	1003.4	1002.4	997.5
5°	1002.4	995.5	999.4	998.5	997.5
7.5°	995.5	988.7	993.6	992.6	993.6
10°	983.8	977.9	983.8	984.8	984.8
12.5°	969.1	964.2	972.0	974.0	976.0
15°	953.4	949.5	958.3	962.2	965.2
17.5°	933.9	930.9	941.7	946.6	950.5
20°	912.3	911.3	923.1	928.0	932.9
22.5°	887.9	887.9	901.6	907.4	914.3
25°	861.4	862.4	878.1	885.9	892.7
27.5°	833.0	834.0	852.6	862.4	870.2
30°	801.7	805.6	825.2	837.9	846.7
32.5°	770.4	775.3	796.8	811.5	821.3
35°	737.1	743.0	767.4	784.1	794.9
37.5°	702.8	709.7	736.1	754.7	767.4
40°	668.6	676.4	703.8	725.4	740.0
42.5°	632.4	641.2	671.5	697.0	712.6
45°	596.1	605.9	637.3	667.6	685.2
47.5°	559.9	571.7	605.0	638.2	656.8
50°	522.7	534.5	569.7	607.9	626.5
52.5°	485.5	499.2	538.4	577.5	596.1
55°	449.3	463.0	505.1	546.2	564.8
57.5°	412.1	425.8	471.8	514.9	533.5
60°	373.9	389.6	437.6	481.6	502.2
62.5°	336.7	353.4	404.3	451.3	470.8
65°	299.5	317.2	370.0	419.0	438.5
67.5°	261.4	281.9	336.7	386.7	407.2
70°	224.2	246.7	304.4	354.4	373.9
72.5°	187.9	212.4	272.1	323.0	334.8
75°	151.7	180.1	240.8	269.2	269.2
77.5°	117.5	148.8	205.6	216.3	222.2
80°	85.2	119.4	154.7	167.4	165.4
82.5°	56.8	91.0	110.6	110.6	107.7
85°	32.3	54.8	59.7	57.8	56.8
87.5°	13.7	20.6	18.6	14.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)