

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: P263451

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1819.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

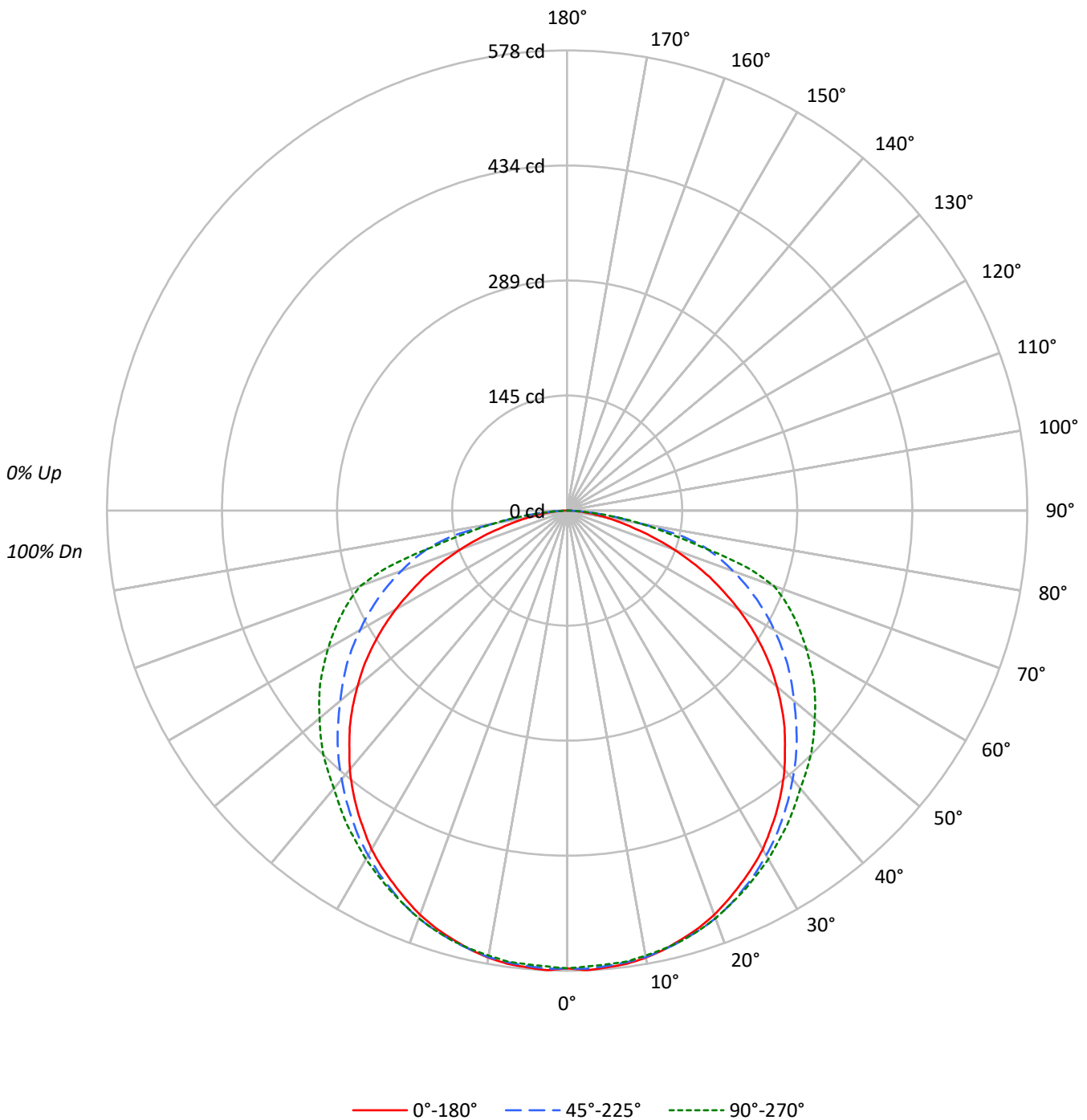
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	774	774	774
5°	778	775	773
10°	779	778	775
15°	776	779	779
20°	774	780	780
25°	767	778	781
30°	763	777	785
35°	755	775	792
40°	746	774	800
45°	735	776	824
50°	720	779	850
55°	701	793	888
60°	670	809	933
65°	628	834	999
70°	562	872	1087
75°	464	933	899
80°	379	721	728
85°	304	479	449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	3.0
10°-20°	157.6	8.7
20°-30°	240.9	13.2
30°-40°	294.6	16.2
40°-50°	315.2	17.3
50°-60°	301.8	16.6
60°-70°	255.3	14.0
70°-80°	161.8	8.9
80°-90°	37.2	2.0
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°	453.1	24.9
0°-40°	747.6	41.1
0°-60°	1364.6	75.0
0°-90°	1819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	576	573	574	573	572	55
15°	557	556	559	559	559	157
25°	517	517	524	526	526	238
35°	460	462	472	478	482	287
45°	386	393	408	425	433	298
55°	299	308	338	366	379	267
65°	197	216	262	298	314	194
75°	89	126	180	178	173	97
85°	20	30	31	28	29	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.0	575.0	575.0	575.0	575.0
2.5°	577.8	575.0	576.0	575.0	573.1
5°	576.0	573.1	574.1	573.1	572.2
7.5°	574.1	571.3	572.2	571.3	571.3
10°	570.3	567.5	569.4	568.4	567.5
12.5°	564.7	562.8	564.7	563.7	563.7
15°	557.2	556.2	559.0	559.0	559.0
17.5°	549.7	548.7	552.5	552.5	552.5
20°	540.3	539.3	545.0	545.0	545.0
22.5°	529.0	528.0	535.6	535.6	535.6
25°	516.8	516.8	524.3	526.2	526.2
27.5°	504.6	504.6	513.0	515.8	515.8
30°	491.4	491.4	499.9	503.6	505.5
32.5°	475.4	477.3	486.7	491.4	493.3
35°	459.5	462.3	471.7	478.2	482.0
37.5°	442.5	445.4	456.6	464.2	468.8
40°	424.7	428.4	440.7	450.1	455.7
42.5°	405.0	410.6	424.7	436.9	444.4
45°	386.2	392.7	407.8	424.7	433.1
47.5°	365.5	373.0	389.9	411.5	420.0
50°	343.9	351.4	372.1	396.5	405.9
52.5°	322.3	330.7	355.2	381.5	392.7
55°	298.8	308.2	338.2	366.4	378.6
57.5°	274.4	285.6	319.5	349.5	362.7
60°	249.0	263.1	300.7	332.6	346.7
62.5°	222.7	239.6	281.9	315.7	330.7
65°	197.3	216.1	262.1	297.8	313.8
67.5°	170.1	193.6	242.4	280.9	296.0
70°	142.8	170.1	221.7	261.2	276.2
72.5°	115.6	148.5	201.1	236.8	236.8
75°	89.3	125.9	179.5	178.5	172.9
77.5°	67.6	105.2	147.5	125.9	126.8
80°	48.9	84.6	93.0	93.0	94.0
82.5°	32.9	64.8	60.1	59.2	61.1
85°	19.7	30.1	31.0	28.2	29.1
87.5°	9.4	10.3	8.5	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)