

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: P263226

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263226
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-LD5-30-SQP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2065.0 lumens
Efficiency: N/A
Efficacy: 103.3 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

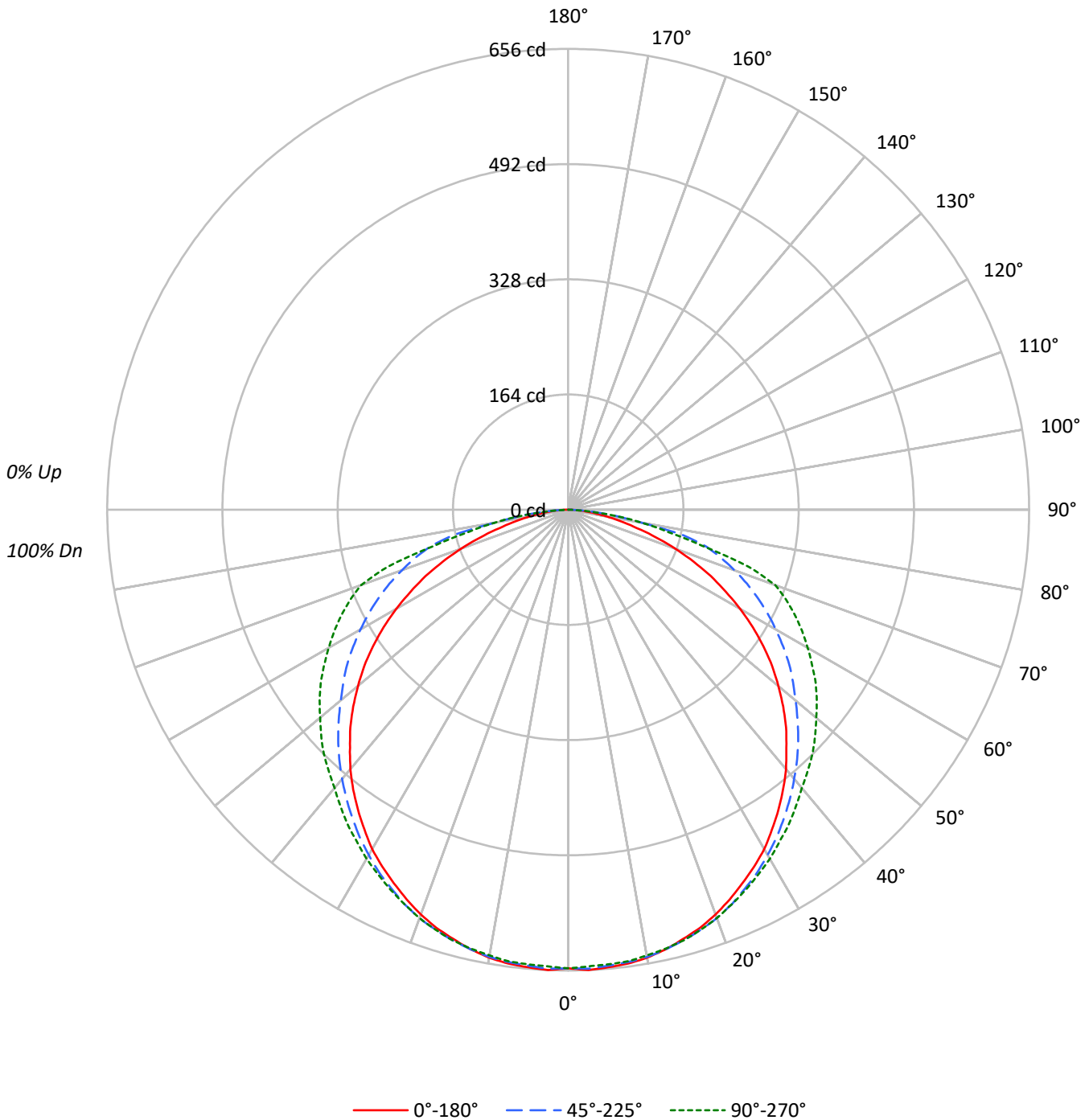
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263226

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P263226

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-4500K

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°	878	878	878
5°	883	880	877
10°	885	883	880
15°	881	884	884
20°	878	886	886
25°	871	884	887
30°	867	882	892
35°	857	880	899
40°	847	879	909
45°	834	881	936
50°	817	884	965
55°	796	901	1008
60°	761	918	1059
65°	713	947	1134
70°	638	990	1234
75°	527	1059	1020
80°	430	818	827
85°	346	543	511



TEST NUMBER: P263226

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	3.0
10°-20°	178.9	8.7
20°-30°	273.4	13.2
30°-40°	334.4	16.2
40°-50°	357.8	17.3
50°-60°	342.7	16.6
60°-70°	289.8	14.0
70°-80°	183.7	8.9
80°-90°	42.3	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°	514.3	24.9
0°-40°	848.7	41.1
0°-60°	1549.2	75.0
0°-90°	2065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	654	651	652	651	650	62
15°	632	632	635	635	635	179
25°	587	587	595	597	597	271
35°	522	525	536	543	547	326
45°	438	446	463	482	492	338
55°	339	350	384	416	430	303
65°	224	245	298	338	356	221
75°	101	143	204	203	196	110
85°	22	34	35	32	33	27
90°	0	0	0	0	0	



TEST NUMBER: P263226

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.8	652.8	652.8	652.8	652.8
2.5°	656.0	652.8	653.9	652.8	650.7
5°	653.9	650.7	651.7	650.7	649.6
7.5°	651.7	648.5	649.6	648.5	648.5
10°	647.5	644.3	646.4	645.3	644.3
12.5°	641.1	638.9	641.1	640.0	640.0
15°	632.5	631.5	634.7	634.7	634.7
17.5°	624.0	622.9	627.2	627.2	627.2
20°	613.3	612.3	618.7	618.7	618.7
22.5°	600.5	599.5	608.0	608.0	608.0
25°	586.7	586.7	595.2	597.3	597.3
27.5°	572.8	572.8	582.4	585.6	585.6
30°	557.9	557.9	567.5	571.7	573.9
32.5°	539.7	541.9	552.5	557.9	560.0
35°	521.6	524.8	535.5	542.9	547.2
37.5°	502.4	505.6	518.4	526.9	532.3
40°	482.1	486.4	500.3	510.9	517.3
42.5°	459.7	466.1	482.1	496.0	504.5
45°	438.4	445.9	462.9	482.1	491.7
47.5°	414.9	423.5	442.7	467.2	476.8
50°	390.4	398.9	422.4	450.1	460.8
52.5°	365.9	375.5	403.2	433.1	445.9
55°	339.2	349.9	384.0	416.0	429.9
57.5°	311.5	324.3	362.7	396.8	411.7
60°	282.7	298.7	341.3	377.6	393.6
62.5°	252.8	272.0	320.0	358.4	375.5
65°	224.0	245.3	297.6	338.1	356.3
67.5°	193.1	219.7	275.2	318.9	336.0
70°	162.1	193.1	251.7	296.5	313.6
72.5°	131.2	168.5	228.3	268.8	268.8
75°	101.3	142.9	203.7	202.7	196.3
77.5°	76.8	119.5	167.5	142.9	144.0
80°	55.5	96.0	105.6	105.6	106.7
82.5°	37.3	73.6	68.3	67.2	69.3
85°	22.4	34.1	35.2	32.0	33.1
87.5°	10.7	11.7	9.6	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)