

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: P263885

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2205.0 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

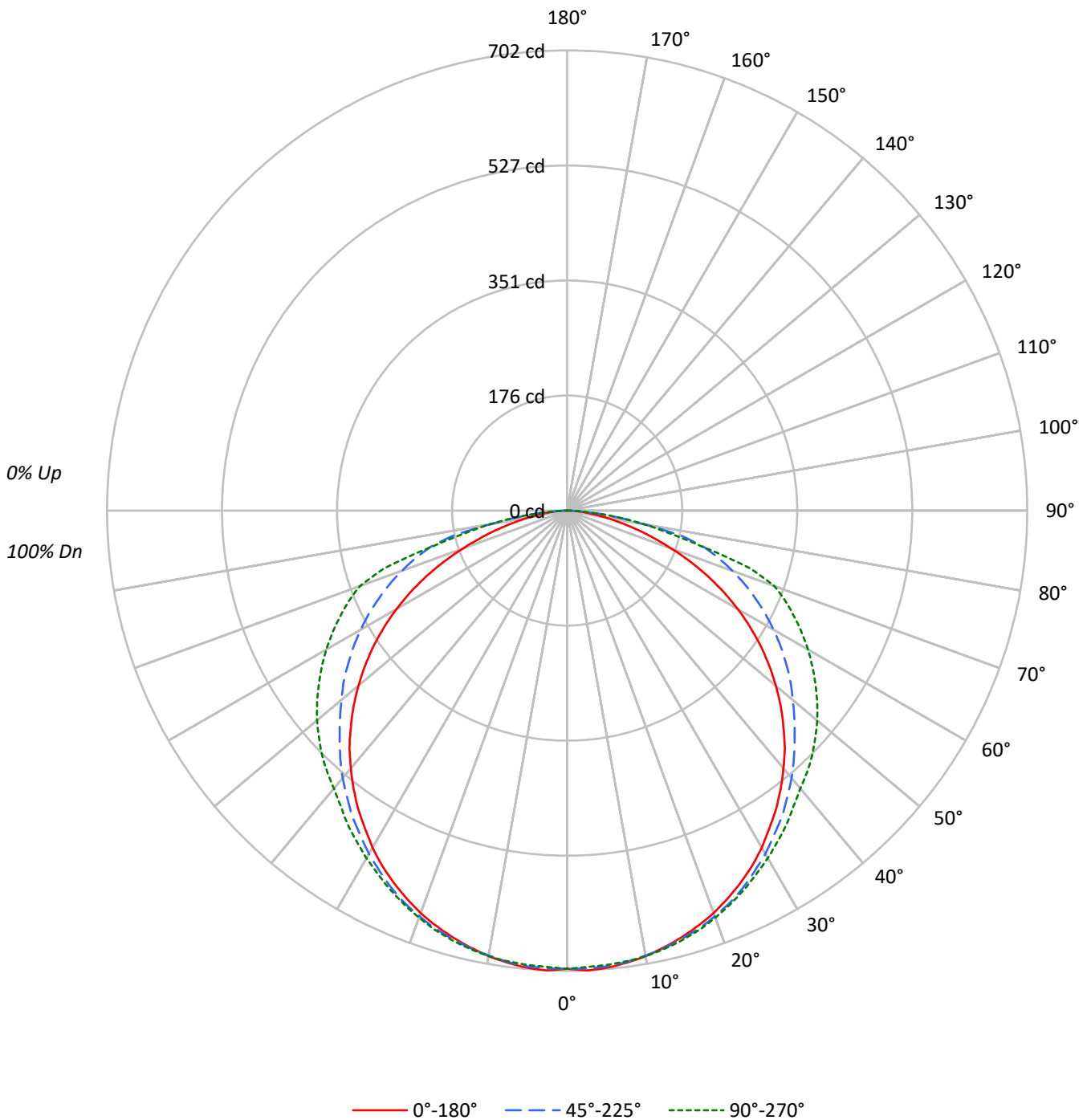
Input Watts (W): 30.318
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263885

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P263885

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-2700K

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	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	27
9	55	41	33	27	53	41	32	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°	940	940	940
5°	946	943	940
10°	943	942	943
15°	939	942	945
20°	936	943	946
25°	930	943	947
30°	922	939	951
35°	913	938	959
40°	902	936	972
45°	888	934	1006
50°	870	941	1043
55°	845	957	1085
60°	809	978	1142
65°	753	1009	1216
70°	666	1055	1324
75°	559	1129	1111
80°	446	892	925
85°	352	604	553



TEST NUMBER: P263885

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	3.0
10°-20°	190.8	8.7
20°-30°	291.4	13.2
30°-40°	356.3	16.2
40°-50°	381.4	17.3
50°-60°	365.8	16.6
60°-70°	308.9	14.0
70°-80°	197.4	9.0
80°-90°	46.7	2.1
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°	548.5	24.9
0°-40°	904.8	41.0
0°-60°	1652.0	74.9
0°-90°	2205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	700	696	698	697	696	66
15°	674	672	676	678	678	190
25°	626	625	635	637	638	289
35°	556	560	571	578	584	347
45°	467	474	491	513	529	360
55°	360	372	408	445	462	322
65°	237	259	317	361	382	233
75°	108	153	217	221	214	116
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



TEST NUMBER: P263885

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	699.0	699.0	699.0	699.0	699.0
2.5°	702.3	697.9	699.0	699.0	696.8
5°	700.1	695.7	697.9	696.8	695.7
7.5°	695.7	692.5	694.7	694.7	693.6
10°	690.3	687.1	689.2	690.3	690.3
12.5°	682.7	680.6	683.8	683.8	684.9
15°	674.0	671.9	676.2	678.4	678.4
17.5°	664.3	663.2	668.6	669.7	670.8
20°	653.4	652.3	658.8	658.8	661.0
22.5°	640.4	639.3	648.0	648.0	650.2
25°	626.3	625.2	635.0	637.1	638.2
27.5°	611.1	610.0	619.8	623.0	625.2
30°	593.7	593.7	604.6	608.9	612.2
32.5°	574.2	577.4	587.2	593.7	598.1
35°	555.7	560.1	570.9	578.5	584.0
37.5°	535.1	539.4	551.4	561.2	567.7
40°	513.4	518.8	532.9	543.8	553.6
42.5°	491.7	497.1	512.3	528.6	541.6
45°	466.7	474.3	490.6	513.4	528.6
47.5°	441.8	449.4	470.0	498.2	513.4
50°	415.7	424.4	449.4	481.9	498.2
52.5°	388.6	398.3	429.8	464.6	480.8
55°	360.4	372.3	408.1	445.0	462.4
57.5°	331.0	344.1	386.4	425.5	443.9
60°	300.7	316.9	363.6	404.9	424.4
62.5°	269.2	288.7	340.8	383.1	403.8
65°	236.6	259.4	316.9	361.4	382.1
67.5°	203.0	233.4	293.1	339.7	360.4
70°	169.3	205.1	268.1	315.9	336.5
72.5°	137.8	179.1	243.1	287.6	292.0
75°	107.5	153.0	217.1	221.4	213.8
77.5°	80.3	127.0	179.1	159.6	158.5
80°	57.5	102.0	115.1	118.3	119.4
82.5°	38.0	77.1	74.9	77.1	76.0
85°	22.8	38.0	39.1	38.0	35.8
87.5°	10.9	14.1	10.9	9.8	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)