

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: P263617

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263617
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-LD5-30SE-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1640.0 lumens
Efficiency: N/A
Efficacy: 73.7 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

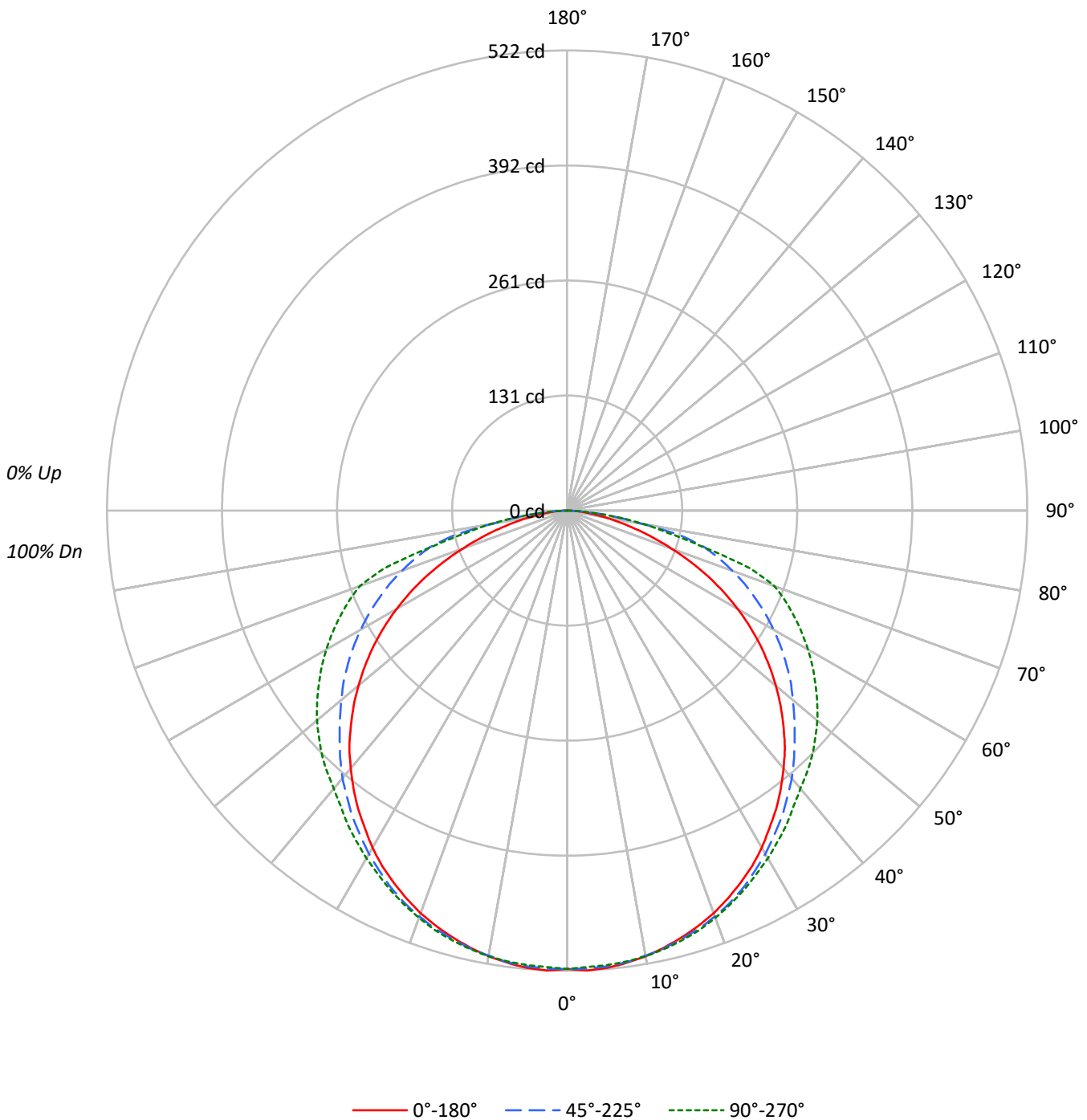
Input Watts (W): 22.262526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263617

CATALOG NUMBER: 24CZ-LD5-30SE-RDP-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P263617

CATALOG NUMBER: 24CZ-LD5-30SE-RDP-UNV-L93050-W2A1-U-3000K

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	55	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°	700	700	700
5°	703	701	699
10°	701	700	701
15°	698	701	703
20°	696	702	704
25°	692	701	705
30°	686	699	707
35°	679	697	713
40°	671	696	723
45°	660	694	748
50°	647	700	776
55°	629	712	807
60°	602	728	849
65°	560	750	905
70°	495	784	985
75°	415	840	827
80°	332	663	688
85°	262	449	411



TEST NUMBER: P263617

CATALOG NUMBER: 24CZ-LD5-30SE-RDP-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	3.0
10°-20°	141.9	8.7
20°-30°	216.8	13.2
30°-40°	265.0	16.2
40°-50°	283.6	17.3
50°-60°	272.1	16.6
60°-70°	229.7	14.0
70°-80°	146.8	9.0
80°-90°	34.7	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°	408.0	24.9
0°-40°	673.0	41.0
0°-60°	1228.7	74.9
0°-90°	1640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	521	518	519	518	518	49
15°	501	500	503	504	504	142
25°	466	465	472	474	475	215
35°	413	417	425	430	434	258
45°	347	353	365	382	393	268
55°	268	277	304	331	344	239
65°	176	193	236	269	284	174
75°	80	114	162	165	159	86
85°	17	28	29	28	27	20
90°	0	0	0	0	0	



TEST NUMBER: P263617

CATALOG NUMBER: 24CZ-LD5-30SE-RDP-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	519.9	519.9	519.9	519.9	519.9
2.5°	522.3	519.1	519.9	519.9	518.3
5°	520.7	517.5	519.1	518.3	517.5
7.5°	517.5	515.0	516.7	516.7	515.8
10°	513.4	511.0	512.6	513.4	513.4
12.5°	507.8	506.2	508.6	508.6	509.4
15°	501.3	499.7	502.9	504.5	504.5
17.5°	494.1	493.2	497.3	498.1	498.9
20°	486.0	485.2	490.0	490.0	491.6
22.5°	476.3	475.5	481.9	481.9	483.6
25°	465.8	465.0	472.3	473.9	474.7
27.5°	454.5	453.7	461.0	463.4	465.0
30°	441.6	441.6	449.7	452.9	455.3
32.5°	427.0	429.5	436.7	441.6	444.8
35°	413.3	416.6	424.6	430.3	434.3
37.5°	398.0	401.2	410.1	417.4	422.2
40°	381.8	385.9	396.4	404.4	411.7
42.5°	365.7	369.7	381.0	393.1	402.8
45°	347.1	352.8	364.9	381.8	393.1
47.5°	328.6	334.2	349.6	370.5	381.8
50°	309.2	315.6	334.2	358.4	370.5
52.5°	289.0	296.3	319.7	345.5	357.6
55°	268.0	276.9	303.5	331.0	343.9
57.5°	246.2	255.9	287.4	316.5	330.2
60°	223.6	235.7	270.4	301.1	315.6
62.5°	200.2	214.7	253.5	285.0	300.3
65°	176.0	192.9	235.7	268.8	284.2
67.5°	151.0	173.6	218.0	252.7	268.0
70°	125.9	152.6	199.4	234.9	250.3
72.5°	102.5	133.2	180.8	213.9	217.2
75°	79.9	113.8	161.5	164.7	159.0
77.5°	59.7	94.5	133.2	118.7	117.9
80°	42.8	75.9	85.6	88.0	88.8
82.5°	28.3	57.3	55.7	57.3	56.5
85°	17.0	28.3	29.1	28.3	26.6
87.5°	8.1	10.5	8.1	7.3	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)