

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: P260602

Luminaire Tested: **24CZ-LD5-30SE-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260602
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-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2866.0 lumens
Efficiency: N/A
Efficacy: 132.0 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

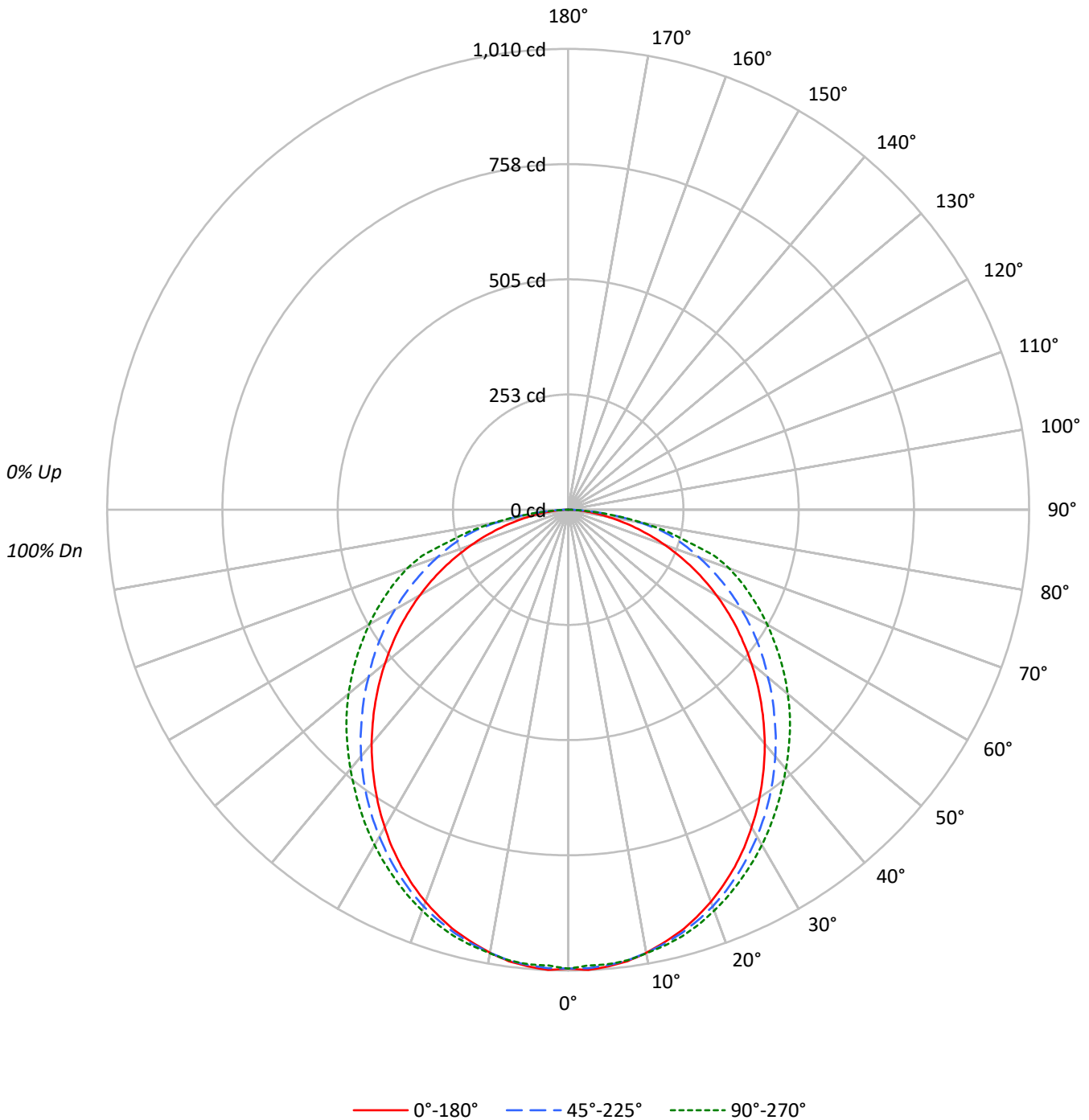
Input Watts (W): 21.718476
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1353	1353	1353
5°	1357	1353	1350
10°	1347	1347	1349
15°	1331	1338	1348
20°	1310	1325	1339
25°	1282	1307	1329
30°	1249	1285	1319
35°	1214	1264	1309
40°	1177	1239	1303
45°	1137	1216	1307
50°	1097	1195	1315
55°	1057	1188	1328
60°	1009	1180	1355
65°	956	1181	1400
70°	884	1201	1475
75°	791	1255	1403
80°	662	1201	1285
85°	500	925	878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.3
10°-20°	270.5	9.4
20°-30°	404.4	14.1
30°-40°	479.8	16.7
40°-50°	493.8	17.2
50°-60°	453.0	15.8
60°-70°	366.3	12.8
70°-80°	237.7	8.3
80°-90°	65.5	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°	770.0	26.9
0°-40°	1249.7	43.6
0°-60°	2196.5	76.6
0°-90°	2866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	998	1002	1001	1000	95
15°	956	952	961	965	968	269
25°	864	864	880	888	895	397
35°	739	745	769	786	797	462
45°	598	607	639	669	687	461
55°	450	464	506	548	566	402
65°	300	318	371	420	440	297
75°	152	181	241	270	270	162
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°	1005.8	1005.8	1005.8	1005.8	1005.8
2.5°	1009.7	1001.9	1005.8	1004.8	999.9
5°	1004.8	998.0	1001.9	1000.9	999.9
7.5°	998.0	991.1	996.0	995.0	996.0
10°	986.2	980.3	986.2	987.2	987.2
12.5°	971.5	966.6	974.4	976.4	978.3
15°	955.8	951.8	960.7	964.6	967.5
17.5°	936.1	933.2	944.0	948.9	952.8
20°	914.6	913.6	925.4	930.3	935.2
22.5°	890.0	890.0	903.8	909.7	916.5
25°	863.5	864.5	880.2	888.1	894.9
27.5°	835.1	836.1	854.7	864.5	872.4
30°	803.7	807.6	827.2	840.0	848.8
32.5°	772.3	777.2	798.8	813.5	823.3
35°	738.9	744.8	769.3	786.0	796.8
37.5°	704.6	711.4	737.9	756.6	769.3
40°	670.2	678.1	705.5	727.1	741.9
42.5°	633.9	642.7	673.2	698.7	714.4
45°	597.6	607.4	638.8	669.2	686.9
47.5°	561.3	573.1	606.4	639.8	658.4
50°	524.0	535.8	571.1	609.4	628.0
52.5°	486.7	500.5	539.7	579.0	597.6
55°	450.4	464.1	506.3	547.6	566.2
57.5°	413.1	426.9	473.0	516.2	534.8
60°	374.9	390.6	438.6	482.8	503.4
62.5°	337.6	354.2	405.3	452.4	472.0
65°	300.3	317.9	370.9	420.0	439.6
67.5°	262.0	282.6	337.6	387.6	408.2
70°	224.7	247.3	305.2	355.2	374.9
72.5°	188.4	212.9	272.8	323.8	335.6
75°	152.1	180.6	241.4	269.9	269.9
77.5°	117.8	149.2	206.1	216.9	222.8
80°	85.4	119.7	155.0	167.8	165.8
82.5°	56.9	91.3	110.9	110.9	107.9
85°	32.4	55.0	59.9	57.9	56.9
87.5°	13.7	20.6	18.6	14.7	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)