

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: P#

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2186.9 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

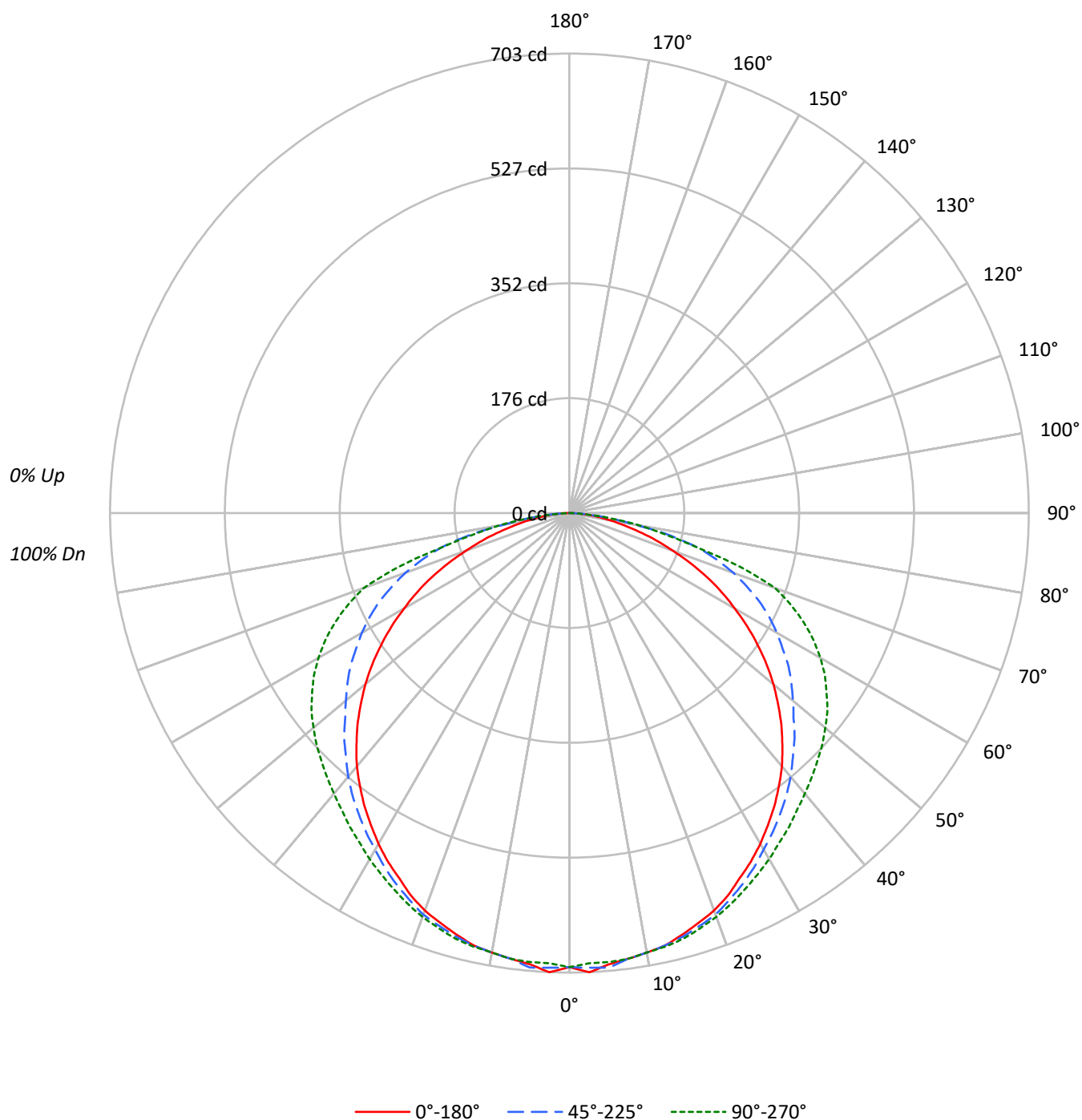
Input Watts (W): 21.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	105	101	97	93	97	93	90	93	90	87	89	87	85	83		
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	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	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41		
6	68	55	45	39	66	54	45	39	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°	935	935	935
5°	934	938	927
10°	929	924	925
15°	924	921	927
20°	918	919	924
25°	905	908	922
30°	895	896	923
35°	883	890	930
40°	871	885	945
45°	851	881	973
50°	829	879	1010
55°	796	893	1052
60°	753	904	1098
65°	703	918	1138
70°	619	915	1157
75°	525	877	878
80°	426	597	656
85°	327	327	301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.0
10°-20°	189.4	8.7
20°-30°	288.6	13.2
30°-40°	353.2	16.1
40°-50°	380.0	17.4
50°-60°	368.1	16.8
60°-70°	311.8	14.3
70°-80°	188.5	8.6
80°-90°	41.4	1.9
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°	544.0	24.9
0°-40°	897.2	41.0
0°-60°	1645.2	75.2
0°-90°	2186.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2186.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	693	693	698	695	690	66
15°	668	669	671	672	674	188
25°	616	620	627	632	635	285
35°	547	550	562	577	586	342
45°	459	467	487	518	537	353
55°	352	367	409	457	481	314
65°	233	258	321	372	396	229
75°	110	150	202	206	200	119
85°	27	32	34	32	31	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.6	694.6	694.6	694.6	694.6
2.5°	703.1	701.4	696.3	692.9	689.5
5°	692.9	692.9	698.0	694.6	689.5
7.5°	687.8	687.8	687.8	696.3	687.8
10°	682.7	684.4	682.7	689.5	682.7
12.5°	677.6	677.6	677.6	679.3	679.3
15°	667.5	669.2	670.9	672.5	674.2
17.5°	657.3	659.0	662.4	664.1	665.8
20°	647.1	648.8	653.9	653.9	657.3
22.5°	633.5	633.5	640.3	642.0	647.1
25°	616.5	619.9	626.7	631.8	635.2
27.5°	601.2	604.6	611.4	618.2	623.3
30°	584.2	587.6	594.4	604.6	611.4
32.5°	565.6	568.9	579.1	591.0	597.8
35°	546.9	550.3	562.2	577.4	585.9
37.5°	526.5	531.6	545.2	562.2	572.3
40°	506.1	511.2	526.5	545.2	560.5
42.5°	482.3	489.1	506.1	531.6	548.6
45°	458.6	467.0	487.4	518.0	536.7
47.5°	433.1	441.6	465.3	504.4	524.8
50°	407.6	417.8	446.7	489.1	511.2
52.5°	380.4	390.6	428.0	473.8	497.6
55°	351.6	366.8	409.3	456.9	480.6
57.5°	322.7	339.7	387.2	438.2	463.7
60°	292.1	312.5	366.8	417.8	443.3
62.5°	263.2	285.3	344.8	395.7	421.2
65°	232.7	258.2	321.0	371.9	395.7
67.5°	200.4	232.7	293.8	343.1	366.8
70°	168.1	205.5	266.6	312.5	334.6
72.5°	139.3	178.3	236.1	275.1	275.1
75°	110.4	149.5	202.1	205.5	200.4
77.5°	84.9	122.3	157.9	144.4	147.8
80°	62.8	93.4	100.2	105.3	108.7
82.5°	42.5	62.8	64.5	67.9	67.9
85°	27.2	32.3	34.0	32.3	30.6
87.5°	11.9	13.6	10.2	6.8	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)