

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-LD5-45-SQP-UNV-L840-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-LD5-45-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

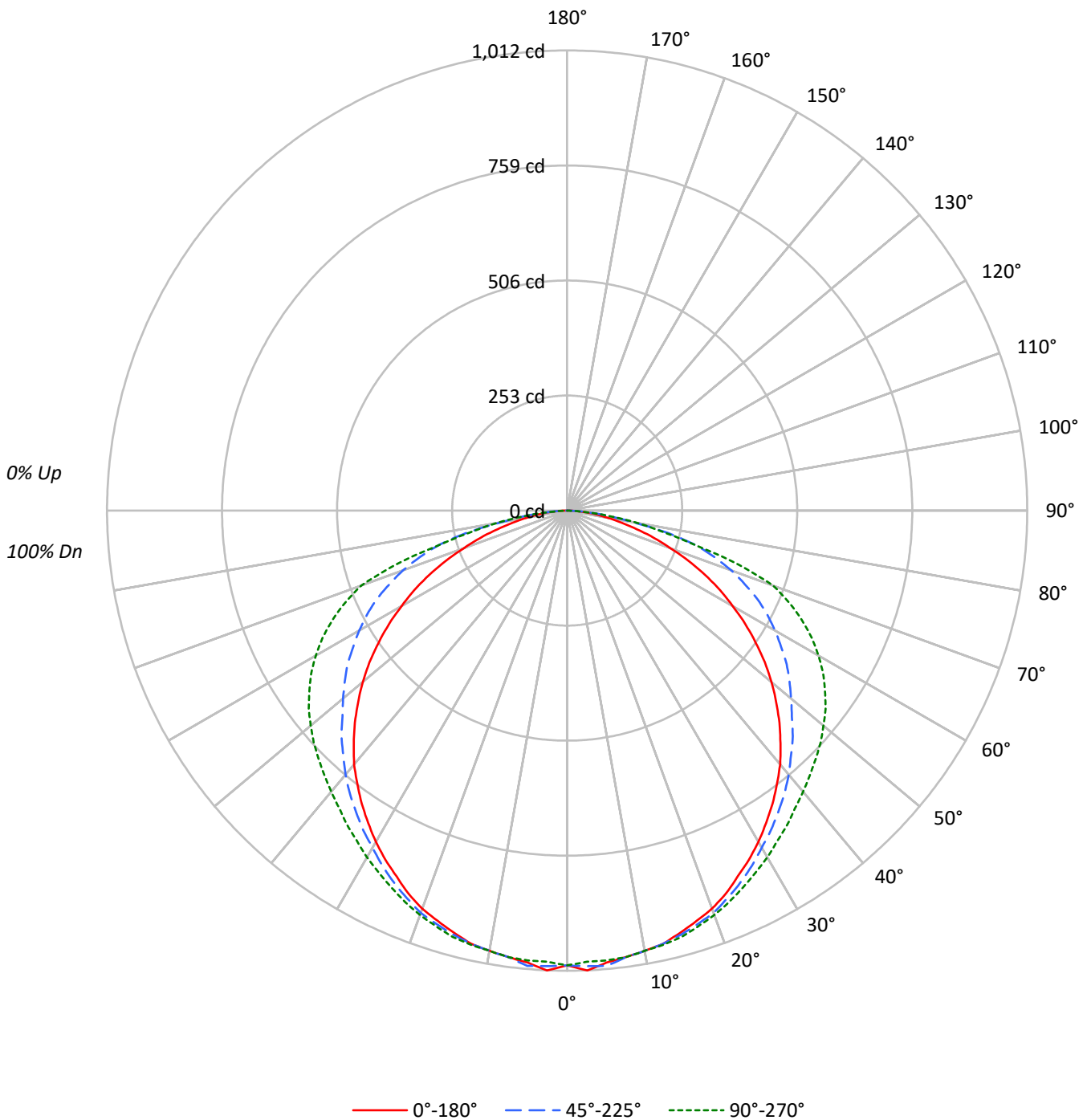
Lumens per Lamp: N/A
Luminaire Lumens: 3149.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 35.69
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	1346	1346	1346
5°	1345	1351	1335
10°	1337	1331	1331
15°	1330	1327	1335
20°	1322	1323	1331
25°	1303	1307	1327
30°	1288	1290	1329
35°	1271	1282	1339
40°	1254	1275	1360
45°	1226	1268	1400
50°	1193	1266	1454
55°	1147	1285	1515
60°	1085	1302	1581
65°	1012	1321	1638
70°	891	1318	1666
75°	756	1263	1264
80°	614	860	945
85°	469	470	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.0
10°-20°	272.7	8.7
20°-30°	415.6	13.2
30°-40°	508.5	16.1
40°-50°	547.2	17.4
50°-60°	530.0	16.8
60°-70°	449.0	14.3
70°-80°	271.4	8.6
80°-90°	59.6	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°	783.3	24.9
0°-40°	1291.8	41.0
0°-60°	2369.0	75.2
0°-90°	3149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	998	998	1005	1000	993	95
15°	961	964	966	968	971	271
25°	888	893	902	910	915	410
35°	787	792	810	832	844	493
45°	660	672	702	746	773	509
55°	506	528	589	658	692	452
65°	335	372	462	536	570	330
75°	159	215	291	296	289	171
85°	39	46	49	46	44	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.2	1000.2	1000.2	1000.2	1000.2
2.5°	1012.4	1010.0	1002.7	997.8	992.9
5°	997.8	997.8	1005.1	1000.2	992.9
7.5°	990.4	990.4	990.4	1002.7	990.4
10°	983.1	985.5	983.1	992.9	983.1
12.5°	975.8	975.8	975.8	978.2	978.2
15°	961.1	963.5	966.0	968.4	970.9
17.5°	946.4	948.9	953.7	956.2	958.6
20°	931.7	934.2	941.5	941.5	946.4
22.5°	912.2	912.2	922.0	924.4	931.7
25°	887.7	892.6	902.4	909.7	914.6
27.5°	865.7	870.6	880.4	890.2	897.5
30°	841.3	846.1	855.9	870.6	880.4
32.5°	814.4	819.2	833.9	851.0	860.8
35°	787.4	792.3	809.5	831.5	843.7
37.5°	758.1	765.4	785.0	809.5	824.1
40°	728.8	736.1	758.1	785.0	807.0
42.5°	694.5	704.3	728.8	765.4	789.9
45°	660.3	672.5	701.9	745.9	772.8
47.5°	623.6	635.8	670.1	726.3	755.7
50°	586.9	601.6	643.2	704.3	736.1
52.5°	547.8	562.5	616.3	682.3	716.5
55°	506.2	528.2	589.4	657.8	692.1
57.5°	464.6	489.1	557.6	630.9	667.6
60°	420.6	450.0	528.2	601.6	638.3
62.5°	379.1	410.8	496.4	569.8	606.5
65°	335.0	371.7	462.2	535.6	569.8
67.5°	288.6	335.0	423.1	494.0	528.2
70°	242.1	295.9	383.9	450.0	481.8
72.5°	200.5	256.8	339.9	396.2	396.2
75°	159.0	215.2	291.0	295.9	288.6
77.5°	122.3	176.1	227.4	207.9	212.8
80°	90.5	134.5	144.3	151.6	156.5
82.5°	61.1	90.5	92.9	97.8	97.8
85°	39.1	46.5	48.9	46.5	44.0
87.5°	17.1	19.6	14.7	9.8	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)