

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P147839

Luminaire Tested: **TLM-E01-LED-E1-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147839
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E01-LED-E1-5WQ-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

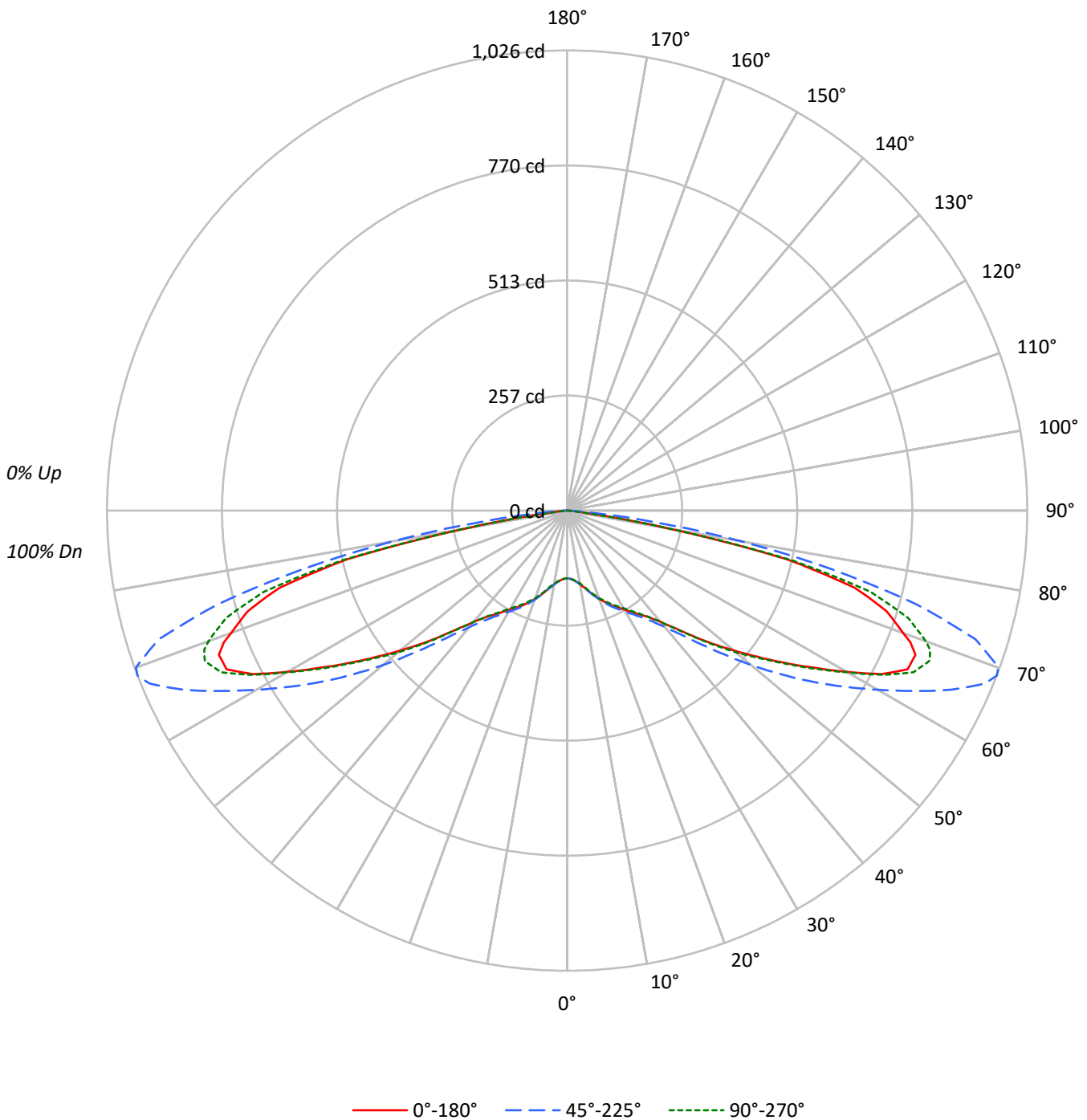
Lumens per Lamp: N/A
Luminaire Lumens: 2907.9 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	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	103	96	90	84	100	94	88	82	89	84	80	85	81	77	81	78	75	72
2	89	77	67	58	86	75	65	58	71	63	56	67	60	55	64	58	53	51
3	78	63	51	42	75	61	50	42	58	48	41	54	46	40	52	45	39	36
4	69	52	41	31	66	51	40	31	48	38	31	45	37	30	43	36	29	27
5	62	45	33	24	59	44	32	24	41	31	24	39	30	23	37	29	23	20
6	56	39	28	19	54	38	27	19	36	26	19	34	25	19	32	24	18	16
7	51	34	24	16	49	34	23	16	32	22	16	30	22	15	29	21	15	13
8	47	31	20	13	45	30	20	13	29	20	13	27	19	13	26	18	13	10
9	44	28	18	11	42	27	18	11	26	17	11	25	17	11	23	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9561	9561	9561
5°	9871	9871	9833
10°	10744	10724	10628
15°	12192	12251	12074
20°	14116	14238	13988
25°	16250	16509	16020
30°	18607	19031	18388
35°	21882	22470	21697
40°	26747	27979	26747
45°	35334	37617	35468
50°	47774	52719	48434
55°	65296	73365	65671
60°	90987	101168	91329
65°	125475	141626	127678
70°	147435	189440	157469
75°	162220	196934	171223
80°	82042	143554	84485
85°	10607	38939	8209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.2	0.5
10°-20°	53.5	1.8
20°-30°	108.4	3.7
30°-40°	181.8	6.3
40°-50°	320.6	11.0
50°-60°	565.4	19.4
60°-70°	863.2	29.7
70°-80°	721.3	24.8
80°-90°	78.4	2.7
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°	177.1	6.1
0°-40°	358.9	12.3
0°-60°	1245.0	42.8
0°-90°	2907.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	151	151	151	151	151	
5°	155	156	155	155	155	15
15°	186	187	187	185	184	54
25°	233	234	236	232	229	108
35°	283	285	291	284	281	180
45°	395	404	420	407	396	310
55°	592	620	665	625	595	536
65°	838	883	945	890	852	802
75°	663	700	805	745	700	639
85°	15	24	54	21	11	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0
2.5°	152.2	152.5	152.2	152.2	152.2	152.2	152.2	151.9	151.9	151.9	152.2
5°	155.3	155.6	155.3	155.6	155.6	155.6	155.6	155.3	155.3	155.3	155.3
7.5°	160.1	160.1	160.1	160.4	160.1	160.1	160.4	160.1	160.1	160.1	160.1
10°	167.1	166.8	166.8	166.8	166.8	166.8	167.1	167.1	167.1	166.8	166.8
12.5°	175.7	175.4	175.7	175.7	176.0	176.0	176.0	176.0	176.0	176.0	175.7
15°	186.0	186.0	186.0	186.3	186.9	186.9	186.6	186.9	186.9	186.9	186.9
17.5°	197.6	198.2	197.6	197.9	198.2	197.9	198.5	198.8	199.1	198.8	197.9
20°	209.5	209.8	209.8	209.8	209.8	210.4	210.7	210.7	211.6	211.3	211.0
22.5°	220.7	221.3	221.3	221.6	221.6	222.6	222.6	222.6	223.2	223.8	223.2
25°	232.6	232.3	232.3	232.9	233.2	234.4	234.4	235.0	235.9	236.3	235.6
27.5°	243.3	243.0	243.0	243.9	244.2	245.7	245.7	246.9	247.5	247.8	247.2
30°	254.5	254.5	254.2	255.1	256.0	257.3	257.9	259.1	260.0	260.3	259.7
32.5°	267.9	267.3	267.6	268.2	268.8	270.0	271.0	272.5	273.7	274.0	273.4
35°	283.1	282.2	282.5	283.1	284.1	285.9	287.4	288.3	290.1	290.7	289.5
37.5°	299.9	300.2	299.9	301.4	302.9	305.1	306.9	308.1	309.9	310.8	309.9
40°	323.6	322.7	323.6	325.2	327.6	330.3	334.0	334.9	336.7	338.5	336.4
42.5°	354.4	353.8	355.9	357.1	359.9	362.9	367.5	369.9	372.6	373.9	372.0
45°	394.6	394.6	397.0	397.3	401.6	405.5	411.9	415.0	420.1	420.1	420.1
47.5°	439.0	440.8	442.4	445.4	448.5	455.8	462.2	468.9	473.7	474.3	473.4
50°	485.0	486.8	491.4	495.6	502.3	511.5	518.5	527.3	531.6	535.2	534.0
52.5°	535.8	536.1	541.6	547.1	556.8	566.9	578.2	587.3	594.9	598.2	595.5
55°	591.5	592.2	597.0	602.8	613.8	625.3	639.3	648.8	658.5	664.6	660.0
57.5°	651.8	652.1	657.0	664.0	677.1	688.7	702.1	715.5	724.6	730.1	727.0
60°	718.5	720.0	723.7	732.5	745.0	757.2	770.6	782.4	793.1	798.9	795.8
62.5°	789.7	791.3	796.4	803.4	814.4	827.8	840.6	855.8	864.6	871.0	866.5
65°	837.5	840.3	848.5	857.9	874.1	891.4	906.3	927.1	937.7	945.3	941.1
67.5°	840.6	842.1	852.2	866.5	888.1	914.3	944.7	977.0	998.0	1008.0	1000.7
69°	819.9	822.0	831.8	847.9	871.9	902.4	938.6	978.8	1011.1	1026.0	1019.0
70°	796.4	801.0	811.7	829.3	852.8	884.7	922.2	965.1	1002.9	1023.3	1018.1
72.5°	747.1	748.3	755.3	769.3	787.3	813.8	849.1	889.6	925.5	954.8	959.0
75°	663.1	667.1	672.2	681.7	690.8	710.0	733.7	761.4	782.4	805.0	805.9
77.5°	501.1	513.0	517.0	519.1	523.0	538.3	559.0	583.0	600.4	604.0	603.4
80°	225.0	240.8	244.5	261.8	272.5	297.8	329.4	366.3	390.9	393.7	387.0
82.5°	44.1	47.2	55.1	68.8	93.8	108.7	129.4	155.3	179.0	192.7	184.5
85°	14.6	15.5	18.0	19.8	22.8	25.9	31.4	39.0	48.4	53.6	47.8
87.5°	5.8	5.8	6.7	7.3	7.9	7.9	7.9	7.3	7.0	5.8	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0
2.5°	151.9	151.9	151.9	151.9	151.9	151.9	151.9	151.9
5°	155.3	155.0	155.0	154.7	154.7	154.7	154.7	154.7
7.5°	159.8	159.5	159.2	159.5	159.2	159.2	159.2	159.2
10°	166.8	166.2	165.9	165.6	165.6	165.6	165.3	165.3
12.5°	175.1	175.1	174.8	174.4	173.8	174.1	173.8	173.2
15°	186.3	185.7	185.4	185.1	184.5	184.5	184.5	184.2
17.5°	197.6	197.0	197.0	196.1	195.8	195.8	195.8	196.1
20°	210.1	209.2	208.5	207.9	207.3	207.6	207.0	207.6
22.5°	222.6	221.3	220.7	219.8	218.9	218.9	218.6	218.0
25°	234.7	233.2	232.6	231.7	230.5	230.5	229.9	229.3
27.5°	246.3	244.8	244.2	242.3	241.1	240.8	240.2	239.9
30°	259.1	257.3	256.3	254.5	252.7	252.4	251.5	251.5
32.5°	272.5	270.7	270.0	267.3	265.8	265.8	265.2	264.6
35°	289.2	286.5	285.9	283.1	281.0	281.0	280.4	280.7
37.5°	309.0	306.9	304.8	302.6	300.2	299.9	299.3	298.7
40°	335.5	333.1	330.6	327.6	325.5	324.8	323.9	323.6
42.5°	370.8	368.4	363.5	361.1	358.9	357.1	356.8	356.5
45°	415.9	412.8	409.5	404.9	402.2	398.2	397.6	396.1
47.5°	470.1	464.3	458.5	454.5	450.3	445.7	444.8	442.4
50°	527.6	523.0	513.3	506.9	500.2	495.6	492.6	491.7
52.5°	589.4	580.9	571.1	562.6	552.9	546.8	541.3	539.8
55°	654.0	641.8	629.6	619.6	609.8	602.5	597.3	594.9
57.5°	718.5	705.1	691.7	680.8	672.5	663.1	657.9	656.7
60°	785.8	773.0	759.3	748.3	738.3	730.1	727.0	721.2
62.5°	857.0	843.6	830.8	820.2	807.4	801.6	796.4	793.1
65°	927.1	911.5	895.4	884.1	871.3	863.1	856.7	852.2
67.5°	981.2	957.8	936.2	917.3	900.0	887.2	878.9	874.7
69°	996.5	967.2	939.5	914.9	894.5	880.2	871.0	866.8
70°	994.6	962.4	931.9	904.8	882.6	867.4	858.5	850.6
72.5°	938.3	908.8	875.0	845.5	825.4	810.8	801.9	797.7
75°	800.7	780.9	756.6	733.7	719.1	710.6	699.6	699.9
77.5°	583.0	583.6	567.2	543.7	527.3	524.3	519.4	514.5
80°	361.7	332.8	313.9	288.6	270.0	253.9	246.9	231.7
82.5°	166.8	130.3	101.1	76.4	58.8	46.0	40.2	32.9
85°	37.1	28.3	23.4	18.9	16.1	14.9	12.2	11.3
87.5°	5.2	4.6	4.3	4.0	3.3	2.4	1.8	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)