

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: P148359

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148359
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
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-E1-5XQ-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

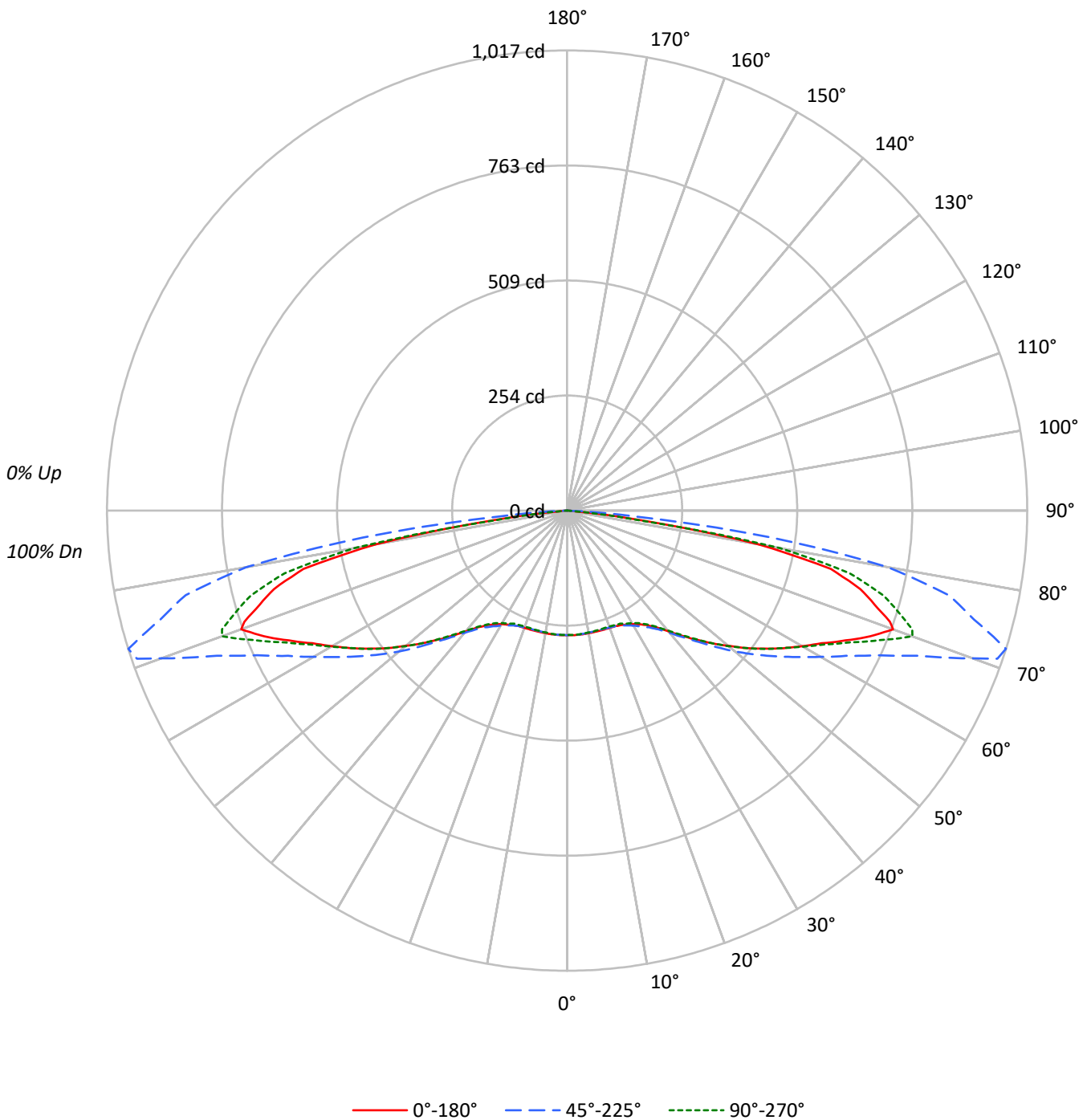
Lumens per Lamp: N/A
Luminaire Lumens: 2904.8 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

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	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					100			
1	102	95	88	82	99	92	86	80	88	82	78	83	79	75	79	76	73	70					70			
2	88	76	66	57	85	74	64	56	70	62	55	66	59	53	63	57	52	49					49			
3	77	62	51	42	74	60	50	41	57	48	40	54	46	39	51	44	38	36					36			
4	69	53	41	32	66	51	40	31	48	38	31	46	37	30	43	36	30	27					27			
5	62	45	34	25	60	44	33	25	42	32	24	39	31	24	37	30	24	21					21			
6	57	40	29	20	54	39	28	20	37	27	20	35	26	20	33	25	19	17					17			
7	52	35	25	17	50	34	24	17	33	24	17	31	23	17	30	22	16	14					14			
8	48	32	22	15	46	31	21	15	30	21	14	28	20	14	27	20	14	12					12			
9	45	29	19	13	43	28	19	13	27	18	12	26	18	12	25	17	12	10					10			
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11	9					9			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17425	17425	17425
5°	17517	17491	17479
10°	17687	17617	17591
15°	18040	17935	17882
20°	18584	18509	18381
25°	19513	19569	19282
30°	21188	21466	20991
35°	23884	24348	23730
40°	28797	29136	28565
45°	36122	36749	35988
50°	45804	47676	45913
55°	58728	61929	58849
60°	75879	81844	76158
65°	101744	113265	103227
70°	141918	176833	150360
75°	164201	227783	176972
80°	156243	262387	173345
85°	12713	106357	8282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	0.9
10°-20°	77.6	2.7
20°-30°	129.9	4.5
30°-40°	198.1	6.8
40°-50°	316.3	10.9
50°-60°	486.3	16.7
60°-70°	708.1	24.4
70°-80°	797.6	27.5
80°-90°	164.7	5.7
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°	233.7	8.0
0°-40°	431.8	14.9
0°-60°	1234.4	42.5
0°-90°	2904.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2904.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	275	275	275	275	275	
5°	276	276	275	275	275	26
15°	275	274	274	272	273	78
25°	279	280	280	277	276	130
35°	309	311	315	309	307	197
45°	403	403	410	404	402	315
55°	532	534	561	536	533	479
65°	679	682	756	692	689	677
75°	671	714	931	773	723	684
85°	18	46	146	37	11	109
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°	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2
2.5°	275.7	275.8	275.8	275.6	275.7	275.6	275.4	275.4	274.8	275.1	275.6
5°	275.6	275.5	275.4	275.4	275.4	275.6	275.4	275.2	275.0	275.2	275.0
7.5°	275.5	275.2	275.0	275.0	275.1	275.2	274.9	274.6	274.8	274.6	274.3
10°	275.1	274.8	274.9	274.6	274.7	274.6	274.3	274.1	274.2	274.0	273.6
12.5°	275.2	274.8	274.8	274.6	274.5	274.4	274.1	273.7	273.8	273.6	273.2
15°	275.2	275.0	274.9	274.6	274.5	274.4	273.9	273.8	273.8	273.6	273.1
17.5°	275.4	275.2	275.2	274.8	274.7	274.6	274.1	273.8	274.1	273.6	273.3
20°	275.8	275.7	275.8	275.6	275.2	275.2	274.8	274.7	274.8	274.7	273.8
22.5°	276.8	276.8	276.9	276.8	276.8	276.8	276.5	276.5	276.6	276.6	275.9
25°	279.3	279.2	279.4	279.4	279.4	280.0	279.8	279.7	280.1	280.1	279.4
27.5°	284.2	284.0	284.2	284.4	284.7	285.4	285.2	285.5	286.1	285.9	285.3
30°	289.8	289.7	290.0	290.5	290.8	291.9	291.4	292.6	293.1	293.6	293.1
32.5°	298.0	298.1	298.8	299.0	299.7	300.8	300.9	301.9	302.6	303.3	302.8
35°	309.0	308.9	309.4	309.9	310.8	311.8	312.2	313.4	314.4	315.0	314.0
37.5°	325.8	325.0	325.9	326.2	326.9	327.1	328.2	329.7	330.9	330.7	330.0
40°	348.4	348.3	347.9	347.5	348.5	348.9	348.9	351.0	352.8	352.5	352.4
42.5°	374.9	374.2	373.8	373.8	374.4	374.6	376.9	378.4	379.7	380.0	379.7
45°	403.4	402.7	402.9	402.6	402.8	403.8	405.1	408.0	410.4	410.4	409.2
47.5°	434.0	431.9	433.6	431.2	432.6	433.4	436.8	440.9	445.2	446.0	444.8
50°	465.0	464.8	464.7	464.2	464.9	466.6	470.8	477.2	481.3	484.0	482.2
52.5°	499.0	497.9	497.3	496.6	497.2	500.5	506.4	512.0	519.4	522.5	520.0
55°	532.0	531.6	529.6	529.6	531.0	536.2	542.5	549.4	557.5	561.0	560.0
57.5°	566.0	563.8	563.2	562.2	565.1	569.9	577.8	590.2	598.6	602.5	600.2
60°	599.2	597.5	596.2	595.9	597.9	604.6	615.8	630.8	641.1	646.3	642.6
62.5°	634.8	633.7	632.2	630.4	634.6	643.2	657.2	673.8	689.0	695.4	689.8
65°	679.1	676.9	675.2	673.0	676.4	687.2	704.8	728.2	748.5	756.0	752.0
67.5°	725.8	723.8	723.9	722.5	728.6	743.6	766.3	798.0	825.3	838.0	830.6
70°	766.6	767.8	768.1	773.6	784.1	807.0	844.7	894.4	935.8	955.2	947.1
71°	754.6	757.1	761.0	766.8	784.9	811.9	863.4	923.6	973.0	1005.8	994.8
72.5°	720.5	722.0	724.0	732.8	753.3	789.0	842.1	910.9	974.3	1016.9	1004.1
75°	671.2	672.6	673.3	679.4	698.1	729.3	777.9	838.9	894.9	931.1	927.5
77.5°	596.8	596.9	602.3	611.8	632.7	668.4	719.6	782.9	835.5	863.6	845.8
80°	428.5	425.6	431.1	443.4	469.2	510.2	562.6	634.9	693.2	719.6	691.9
82.5°	163.0	171.8	185.8	206.0	214.8	260.3	309.2	351.7	400.8	455.8	442.0
85°	17.5	19.7	24.8	30.6	38.7	53.6	74.1	101.1	124.6	146.4	130.0
87.5°	6.6	6.7	7.4	8.6	8.8	9.1	9.8	11.3	10.6	9.1	7.4
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°	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2
2.5°	275.2	275.3	275.2	275.3	275.3	275.0	275.0	274.9
5°	275.2	274.9	275.0	275.0	275.0	275.1	274.9	275.0
7.5°	274.8	274.3	274.5	274.5	274.3	274.5	274.4	274.3
10°	274.0	273.4	273.7	273.6	273.5	273.6	273.6	273.6
12.5°	273.3	273.0	273.0	273.0	272.9	273.1	273.0	273.1
15°	273.2	272.6	272.5	272.3	272.4	272.6	272.6	272.8
17.5°	273.0	272.2	272.2	272.0	272.1	272.4	272.5	272.4
20°	273.5	272.8	272.7	272.6	272.5	272.9	272.8	272.8
22.5°	275.6	274.8	274.8	274.2	273.9	274.2	274.0	274.0
25°	279.0	278.1	277.8	277.0	276.4	276.3	276.1	276.0
27.5°	285.2	283.8	283.5	282.8	282.0	282.2	281.7	281.6
30°	292.4	291.1	290.0	289.1	288.1	287.7	287.2	287.1
32.5°	301.7	300.4	299.0	297.8	296.5	295.9	295.0	294.6
35°	313.2	311.4	309.8	309.0	307.6	307.0	306.4	307.0
37.5°	329.3	327.0	326.3	325.3	324.4	323.3	323.6	323.3
40°	351.5	349.5	348.7	347.0	346.8	345.5	346.3	345.6
42.5°	379.0	375.3	374.8	373.4	373.0	372.3	372.6	372.0
45°	408.9	405.6	405.0	402.8	402.9	401.3	401.8	401.9
47.5°	442.5	439.1	436.3	434.7	434.1	433.1	433.6	433.6
50°	477.2	472.6	469.4	466.4	465.0	465.4	464.3	466.1
52.5°	514.5	507.6	503.2	500.2	497.6	498.2	498.3	498.8
55°	553.1	544.3	537.9	534.0	531.7	531.8	532.5	533.1
57.5°	591.9	580.9	572.2	566.4	564.9	565.6	565.6	565.5
60°	632.2	618.9	607.8	601.2	599.8	599.5	602.4	601.4
62.5°	675.4	659.5	648.0	639.6	637.6	639.0	641.6	641.0
65°	732.8	710.8	695.8	687.5	684.2	685.5	689.1	689.0
67.5°	806.6	775.9	756.2	745.5	743.1	744.8	746.8	748.6
70°	917.2	873.2	845.1	822.0	812.2	810.2	812.2	812.2
71°	956.0	905.6	860.7	832.6	816.4	809.5	810.0	806.6
72.5°	954.4	892.2	839.8	810.4	787.8	782.4	779.7	775.6
75°	890.1	834.1	788.6	756.5	734.8	728.3	723.6	723.4
77.5°	807.2	765.9	715.8	681.8	655.3	644.6	639.8	639.6
80°	648.9	587.1	550.4	529.9	498.0	488.8	479.0	475.4
82.5°	392.4	306.6	249.4	221.6	206.2	169.8	152.4	144.2
85°	91.4	64.9	44.7	29.4	21.2	16.8	12.9	11.4
87.5°	6.2	4.9	4.4	3.5	2.7	2.6	1.6	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)