

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: NEO-RAY

Report Number: P334077

Luminaire Tested: **S123RDW-S775D930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDW-S775D930-4F0-1E-UDD-F
Description: DEFINE 3 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 775 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2271.1 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

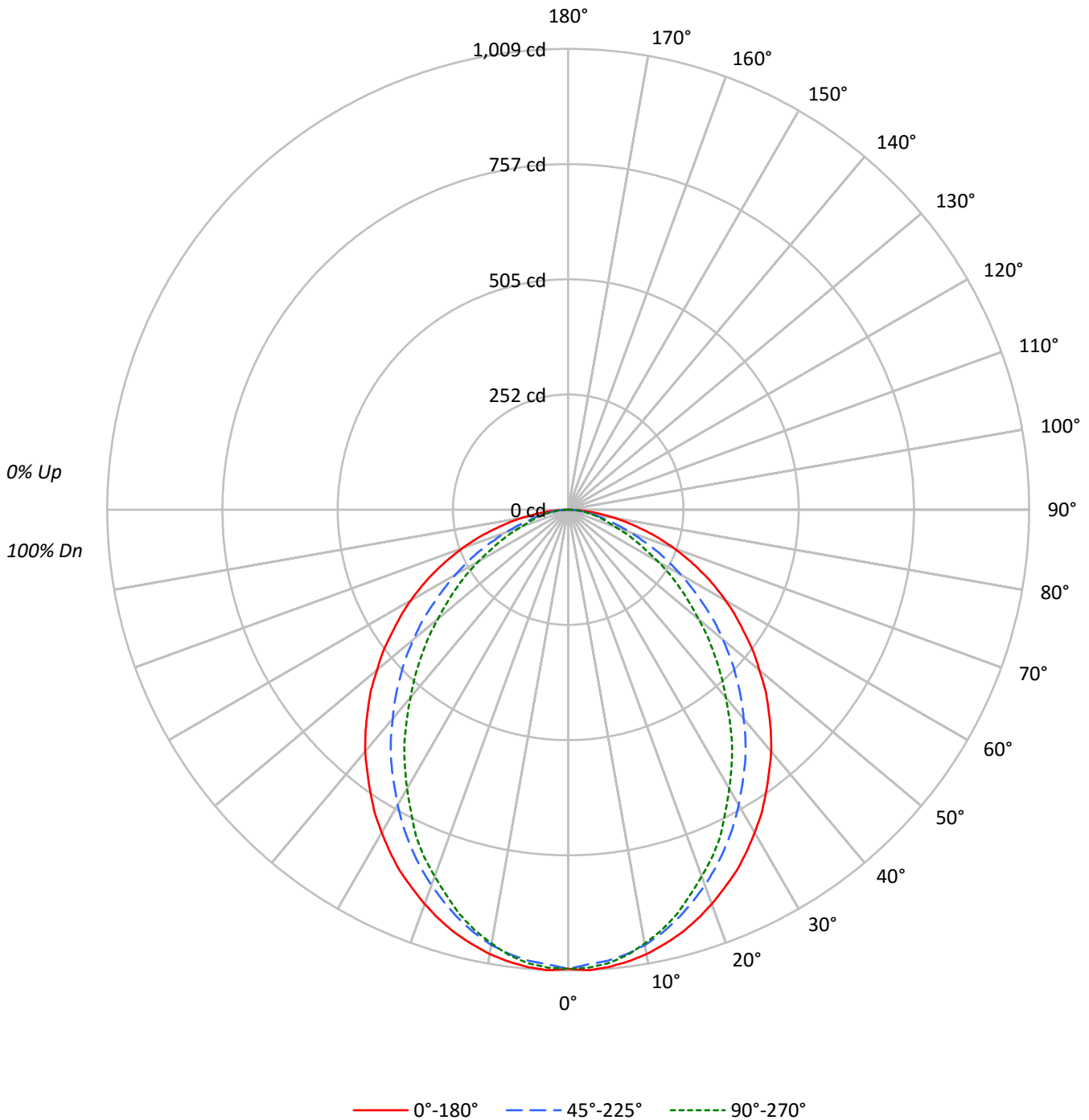
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10821	10821	10821
5°	10862	10712	10774
10°	10800	10578	10542
15°	10685	10330	10221
20°	10525	10021	9787
25°	10361	9674	9364
30°	10143	9272	8765
35°	9921	8871	8217
40°	9715	8397	7539
45°	9444	7931	6925
50°	9148	7400	6239
55°	8843	6793	5600
60°	8566	6144	4898
65°	8201	5440	4195
70°	7748	4567	3386
75°	7087	3593	3186
80°	6316	3186	2932
85°	5335	2816	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	4.2
10°-20°	262.9	11.6
20°-30°	378.5	16.7
30°-40°	426.3	18.8
40°-50°	407.7	18.0
50°-60°	333.8	14.7
60°-70°	225.0	9.9
70°-80°	112.9	5.0
80°-90°	29.5	1.3
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°	735.9	32.4
0°-40°	1162.2	51.2
0°-60°	1903.7	83.8
0°-90°	2271.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2271.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1005	1001	991	999	997	95
15°	959	950	927	923	917	270
25°	872	852	814	797	788	401
35°	755	726	675	640	625	473
45°	620	584	521	474	455	479
55°	471	431	362	315	298	423
65°	322	277	214	174	165	319
75°	170	131	86	78	77	182
85°	43	25	23	21	21	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.3	1005.3	1005.3	1005.3	1005.3
2.5°	1009.3	1006.1	996.3	1005.3	1003.6
5°	1005.3	1001.2	991.4	998.7	997.1
7.5°	997.9	993.9	981.6	986.5	984.1
10°	988.1	982.4	967.8	968.6	964.5
12.5°	974.3	967.8	949.0	948.2	943.3
15°	958.8	949.8	927.0	922.9	917.2
17.5°	940.0	930.3	901.7	893.6	885.4
20°	918.8	905.8	874.8	864.2	854.4
22.5°	895.2	879.7	846.3	832.4	823.5
25°	872.4	852.0	814.5	797.4	788.4
27.5°	844.7	822.6	781.9	759.0	745.2
30°	816.1	791.7	746.0	718.3	705.2
32.5°	787.6	759.0	710.1	679.1	665.3
35°	755.0	725.6	675.1	640.0	625.3
37.5°	722.4	690.6	637.6	598.4	580.5
40°	691.4	655.5	597.6	555.2	536.5
42.5°	656.3	620.4	560.1	512.8	496.5
45°	620.4	583.8	521.0	474.5	454.9
47.5°	585.4	544.6	482.7	432.1	415.0
50°	546.3	507.9	441.9	391.3	372.6
52.5°	511.2	468.8	403.6	350.6	334.3
55°	471.2	431.3	362.0	314.7	298.4
57.5°	435.4	392.2	322.0	277.2	263.3
60°	397.9	353.0	285.4	241.3	227.5
62.5°	360.4	315.5	247.9	207.1	192.4
65°	322.0	277.2	213.6	173.7	164.7
67.5°	283.7	238.1	176.1	145.9	136.2
70°	246.2	202.2	145.1	116.6	107.6
72.5°	208.7	165.5	115.0	92.9	90.5
75°	170.4	131.3	86.4	78.3	76.6
77.5°	135.3	99.5	67.7	62.8	61.1
80°	101.9	68.5	51.4	48.9	47.3
82.5°	70.1	42.4	36.7	34.2	34.2
85°	43.2	25.3	22.8	21.2	21.2
87.5°	19.6	10.6	10.6	9.8	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)