

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: P242546

Luminaire Tested: **S123RDR-S775D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242546
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: S123RDR-S775D930-X4F0-XX-UDD-F-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2271.1 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

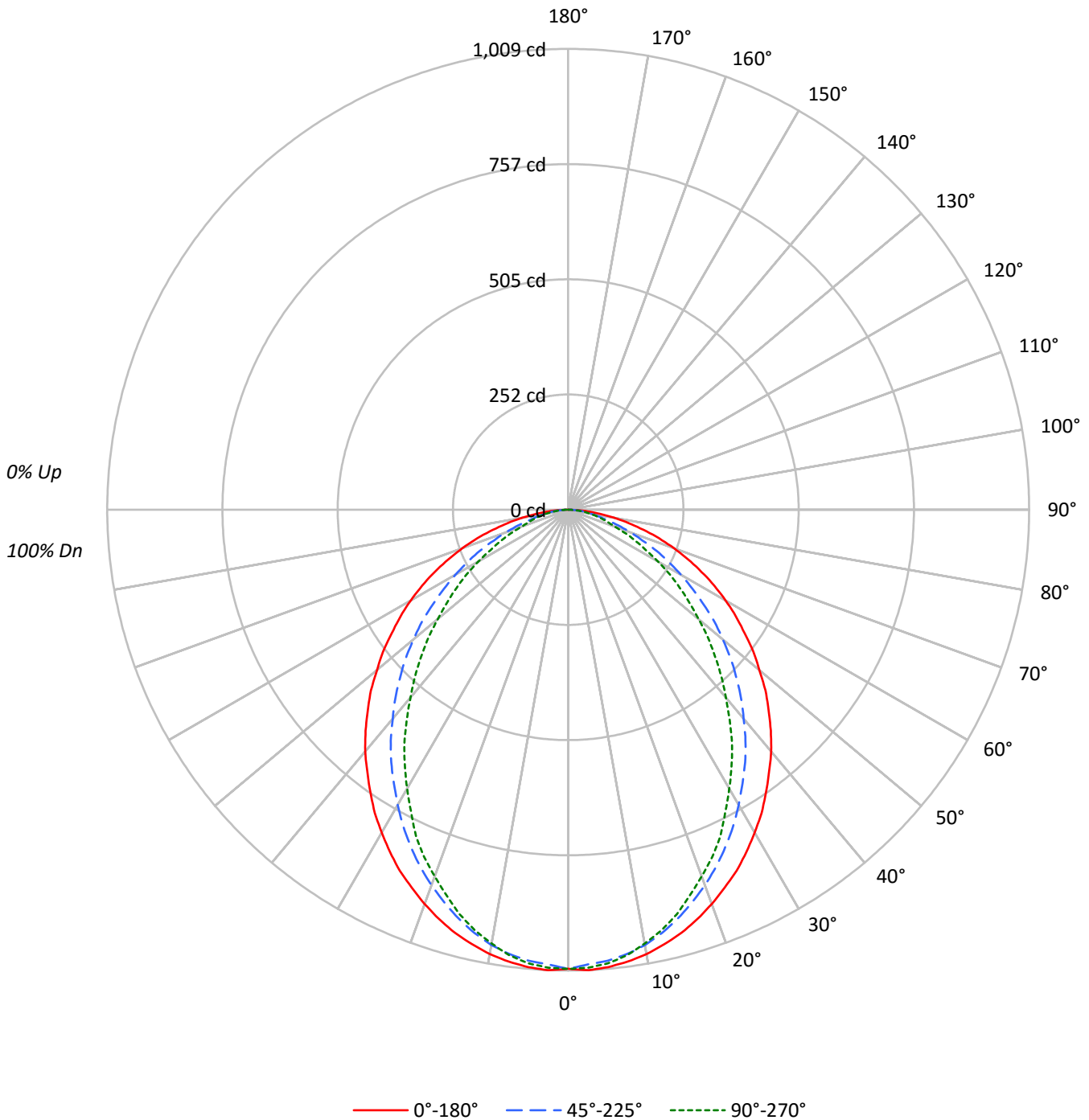
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12185	12185	12185
5°	12232	12063	12132
10°	12162	11912	11871
15°	12032	11633	11510
20°	11852	11284	11021
25°	11668	10893	10544
30°	11422	10441	9870
35°	11172	9990	9253
40°	10940	9456	8489
45°	10635	8931	7798
50°	10302	8333	7026
55°	9958	7650	6306
60°	9646	6919	5515
65°	9235	6126	4724
70°	8725	5142	3813
75°	7980	4046	3587
80°	7113	3588	3302
85°	6008	3171	2948



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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)