

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: P242424

Luminaire Tested: **S123DR-S775D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DR-S775D927-X4F0-XX-UDD-F-W
Description: DEFINE 3 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2397.8 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

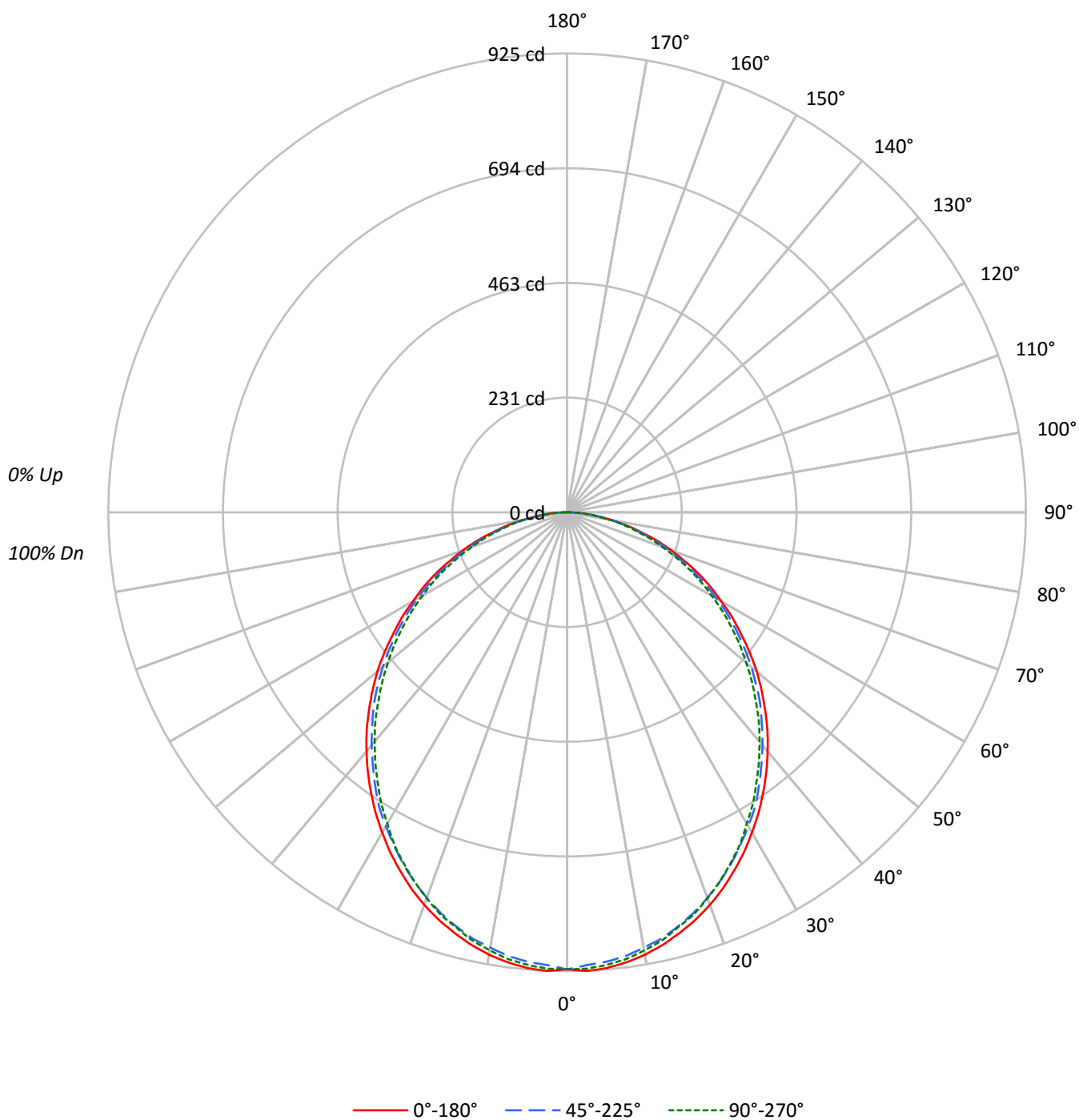
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	95		98	94	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	72
3	91	80	72	66	88	79	71	65		76	69	64		73	67	63		70	66	62
4	83	71	62	56	81	70	62	55		67	60	55		65	59	54		63	58	53
5	76	64	55	48	74	63	54	48		60	53	47		58	52	47		57	51	46
6	71	57	49	42	69	56	48	42		55	47	42		53	46	41		51	46	41
7	66	52	43	37	64	51	43	37		50	42	37		48	42	37		47	41	36
8	61	48	39	33	60	47	39	33		46	38	33		44	38	33		43	37	33
9	57	44	36	30	56	43	35	30		42	35	30		41	34	30		40	34	30
10	54	40	33	27	52	40	32	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11167	11167	11167
5°	11220	11065	11143
10°	11145	10969	11037
15°	11014	10846	10866
20°	10862	10668	10678
25°	10658	10457	10436
30°	10433	10223	10145
35°	10198	9975	9846
40°	9953	9701	9551
45°	9682	9452	9221
50°	9412	9142	8887
55°	9057	8823	8555
60°	8701	8451	8182
65°	8384	8042	7793
70°	7917	7581	7244
75°	7236	6973	6678
80°	6527	6247	6192
85°	5730	5507	5285

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.6
10°-20°	245.2	10.2
20°-30°	362.2	15.1
30°-40°	423.0	17.6
40°-50°	425.3	17.7
50°-60°	373.6	15.6
60°-70°	278.2	11.6
70°-80°	158.3	6.6
80°-90°	45.0	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°	694.3	29.0
0°-40°	1117.3	46.6
0°-60°	1916.2	79.9
0°-90°	2397.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2397.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	922	918	909	917	916	87
15°	878	875	864	871	866	248
25°	797	792	782	783	780	367
35°	689	684	674	669	665	431
45°	565	562	551	542	538	436
55°	429	428	418	409	405	384
65°	292	288	280	274	272	288
75°	154	151	149	145	143	165
85°	41	40	40	38	38	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.3	921.3	921.3	921.3	921.3
2.5°	925.3	922.1	913.4	921.3	920.5
5°	922.1	918.1	909.4	917.3	915.8
7.5°	915.0	911.0	902.3	909.4	908.6
10°	905.5	901.5	891.2	898.3	896.7
12.5°	892.8	889.6	880.1	884.9	884.1
15°	877.7	874.6	864.3	870.6	865.9
17.5°	861.1	857.1	846.8	851.6	850.0
20°	842.1	837.3	827.0	830.2	827.8
22.5°	820.7	815.9	805.6	808.0	804.9
25°	796.9	792.2	781.9	782.7	780.3
27.5°	772.4	767.6	756.5	757.3	754.9
30°	745.4	741.5	730.4	730.4	724.8
32.5°	718.5	713.0	705.0	699.5	697.1
35°	689.2	684.4	674.1	669.4	665.4
37.5°	659.9	653.5	643.3	637.7	635.3
40°	629.0	624.2	613.1	606.8	603.6
42.5°	598.1	592.6	581.5	575.1	572.0
45°	564.8	561.7	551.4	541.9	537.9
47.5°	532.3	527.6	518.1	508.6	505.4
50°	499.1	495.1	484.8	476.1	471.3
52.5°	464.2	461.8	450.8	443.6	438.9
55°	428.6	427.8	417.5	408.8	404.8
57.5°	395.3	392.1	384.2	376.3	371.5
60°	358.9	358.1	348.6	341.4	337.5
62.5°	326.4	324.0	314.5	307.4	305.0
65°	292.3	288.4	280.4	274.1	271.7
67.5°	255.9	252.7	246.4	240.8	237.7
70°	223.4	218.6	213.9	208.3	204.4
72.5°	189.3	186.2	180.6	175.9	174.3
75°	154.5	151.3	148.9	145.0	142.6
77.5°	123.6	122.0	118.8	115.7	115.7
80°	93.5	91.1	89.5	88.7	88.7
82.5°	64.2	64.2	64.2	62.6	61.8
85°	41.2	39.6	39.6	38.0	38.0
87.5°	20.6	18.2	17.4	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)