

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: P242718

Luminaire Tested: **S124RDR-S795D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 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: 2460.3 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

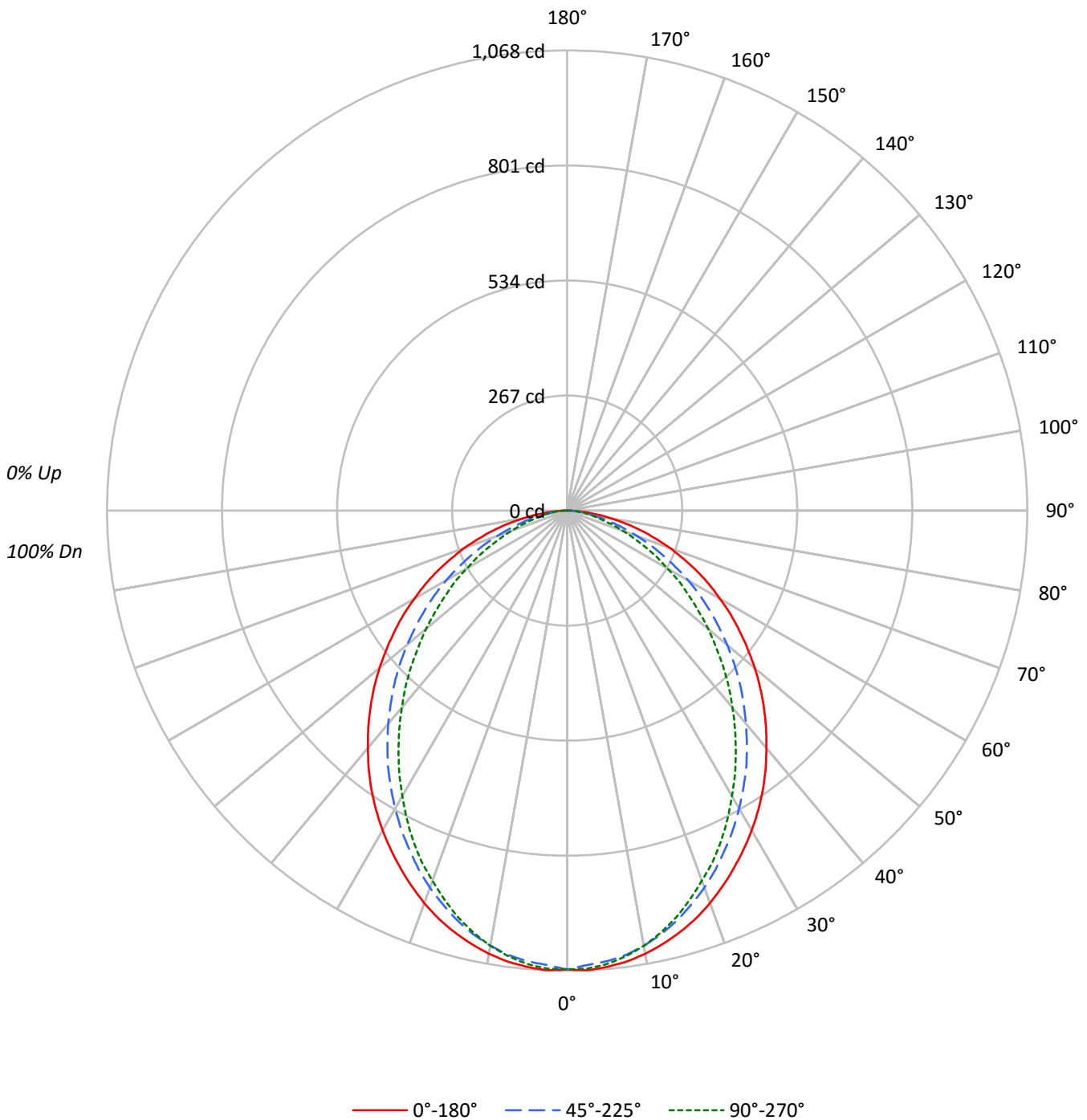
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9465	9465	9465
5°	9486	9370	9428
10°	9427	9257	9257
15°	9318	9064	8995
20°	9170	8808	8646
25°	8980	8508	8293
30°	8795	8193	7850
35°	8591	7865	7405
40°	8344	7492	6925
45°	8117	7123	6436
50°	7859	6697	5919
55°	7581	6255	5357
60°	7276	5769	4782
65°	6996	5161	4219
70°	6591	4491	3581
75°	6075	3723	2912
80°	5298	2836	2672
85°	4488	2580	2407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	4.1
10°-20°	279.2	11.3
20°-30°	403.1	16.4
30°-40°	456.8	18.6
40°-50°	441.0	17.9
50°-60°	366.7	14.9
60°-70°	253.1	10.3
70°-80°	127.9	5.2
80°-90°	32.5	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°	782.3	31.8
0°-40°	1239.1	50.4
0°-60°	2046.9	83.2
0°-90°	2460.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1063	1060	1050	1058	1057	101
15°	1013	1005	985	983	978	285
25°	916	901	868	854	846	422
35°	792	766	725	697	682	495
45°	646	616	567	527	512	498
55°	489	457	404	361	346	438
65°	333	298	245	210	201	328
75°	177	147	108	90	85	187
85°	44	28	25	24	24	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.8	1064.8	1064.8	1064.8	1064.8
2.5°	1068.0	1064.8	1055.8	1064.8	1064.0
5°	1063.1	1059.9	1050.1	1058.3	1056.6
7.5°	1055.8	1052.6	1040.3	1046.0	1043.6
10°	1044.4	1040.3	1025.6	1028.9	1025.6
12.5°	1029.7	1024.8	1006.9	1008.5	1003.6
15°	1012.6	1005.3	984.9	983.3	977.5
17.5°	993.0	982.4	958.8	954.7	946.6
20°	969.4	958.8	931.1	924.5	914.0
22.5°	943.3	931.1	900.9	890.3	882.2
25°	915.6	900.9	867.5	853.6	845.5
27.5°	887.0	869.1	834.1	817.7	806.3
30°	856.9	836.5	798.2	777.8	764.8
32.5°	825.1	801.4	761.5	737.0	724.8
35°	791.7	765.6	724.8	697.1	682.4
37.5°	756.6	729.7	684.9	654.7	640.0
40°	719.1	692.2	645.7	611.5	596.8
42.5°	683.2	654.7	605.8	570.7	555.2
45°	645.7	615.6	566.6	526.7	512.0
47.5°	607.4	576.4	525.9	484.3	468.0
50°	568.3	536.5	484.3	443.5	428.0
52.5°	528.3	497.3	443.5	401.9	385.6
55°	489.2	456.6	403.6	361.2	345.7
57.5°	450.9	416.6	364.4	321.2	309.8
60°	409.3	376.7	324.5	282.1	269.0
62.5°	371.8	337.5	283.7	245.4	235.6
65°	332.6	297.6	245.4	210.3	200.6
67.5°	291.9	258.4	209.5	178.6	167.1
70°	253.6	219.3	172.8	145.9	137.8
72.5°	212.8	182.6	139.4	117.4	110.1
75°	176.9	146.8	108.4	89.7	84.8
77.5°	139.4	113.3	80.7	67.7	66.0
80°	103.5	79.9	55.4	53.0	52.2
82.5°	72.6	51.4	39.9	38.3	37.5
85°	44.0	27.7	25.3	23.6	23.6
87.5°	18.8	12.2	11.4	10.6	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)