

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: P242704

Luminaire Tested: **S124RDR-S795D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242704
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-S795D830-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2844.3 lumens
Efficiency: N/A
Efficacy: 107.7 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

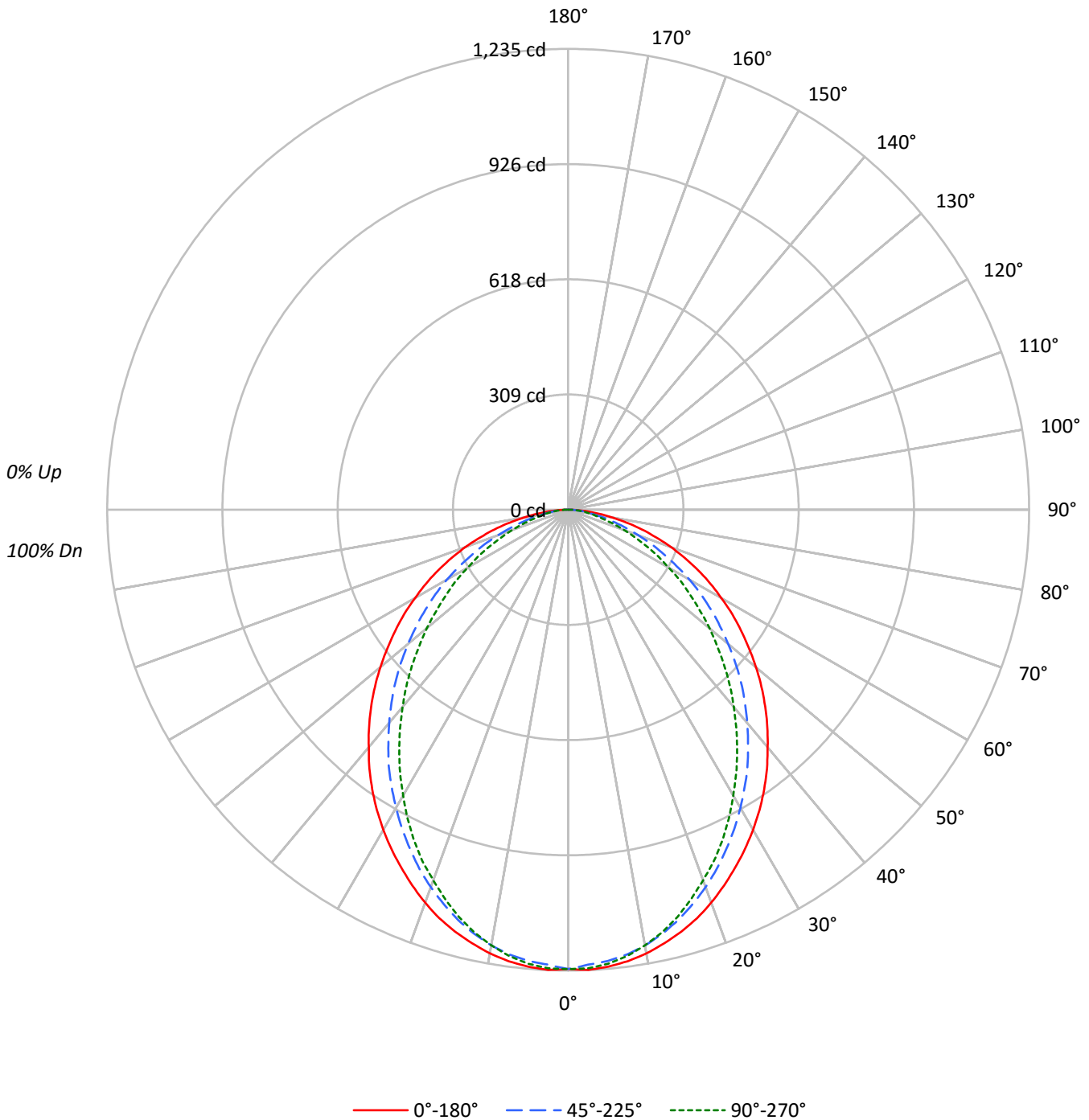
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10942	10942	10942
5°	10967	10832	10899
10°	10898	10702	10702
15°	10772	10478	10400
20°	10601	10182	9995
25°	10382	9836	9586
30°	10168	9471	9074
35°	9931	9092	8561
40°	9646	8662	8005
45°	9384	8235	7441
50°	9085	7743	6842
55°	8764	7231	6193
60°	8412	6668	5529
65°	8089	5967	4878
70°	7618	5193	4140
75°	7023	4307	3366
80°	6127	3281	3087
85°	5191	2978	2784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	4.1
10°-20°	322.7	11.3
20°-30°	466.0	16.4
30°-40°	528.1	18.6
40°-50°	509.9	17.9
50°-60°	423.9	14.9
60°-70°	292.6	10.3
70°-80°	147.8	5.2
80°-90°	37.5	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°	904.4	31.8
0°-40°	1432.5	50.4
0°-60°	2366.3	83.2
0°-90°	2844.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1229	1225	1214	1223	1222	117
15°	1171	1162	1139	1137	1130	330
25°	1058	1042	1003	987	977	488
35°	915	885	838	806	789	572
45°	746	712	655	609	592	576
55°	566	528	467	418	400	506
65°	385	344	284	243	232	380
75°	204	170	125	104	98	216
85°	51	32	29	27	27	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.0	1231.0	1231.0	1231.0	1231.0
2.5°	1234.7	1231.0	1220.6	1231.0	1230.0
5°	1229.1	1225.3	1214.0	1223.4	1221.5
7.5°	1220.6	1216.8	1202.7	1209.3	1206.5
10°	1207.4	1202.7	1185.7	1189.5	1185.7
12.5°	1190.4	1184.8	1164.0	1165.9	1160.3
15°	1170.6	1162.2	1138.6	1136.7	1130.1
17.5°	1148.0	1135.8	1108.4	1103.7	1094.3
20°	1120.7	1108.4	1076.4	1068.8	1056.6
22.5°	1090.5	1076.4	1041.5	1029.3	1019.8
25°	1058.5	1041.5	1002.9	986.8	977.4
27.5°	1025.5	1004.7	964.2	945.4	932.2
30°	990.6	967.0	922.7	899.2	884.1
32.5°	953.9	926.5	880.3	852.1	837.9
35°	915.2	885.0	837.9	805.9	788.9
37.5°	874.7	843.6	791.7	756.9	739.9
40°	831.3	800.2	746.5	706.9	689.9
42.5°	789.9	756.9	700.3	659.8	641.9
45°	746.5	711.6	655.1	608.9	591.9
47.5°	702.2	666.4	607.9	559.9	541.0
50°	657.0	620.2	559.9	512.7	494.8
52.5°	610.8	575.0	512.7	464.7	445.8
55°	565.5	527.8	466.6	417.5	399.6
57.5°	521.2	481.6	421.3	371.4	358.2
60°	473.2	435.5	375.1	326.1	311.0
62.5°	429.8	390.2	328.0	283.7	272.4
65°	384.6	344.0	283.7	243.2	231.9
67.5°	337.4	298.8	242.2	206.4	193.2
70°	293.1	253.5	199.8	168.7	159.3
72.5°	246.0	211.1	161.2	135.7	127.2
75°	204.5	169.7	125.4	103.7	98.0
77.5°	161.2	131.0	93.3	78.2	76.3
80°	119.7	92.4	64.1	61.3	60.3
82.5°	83.9	59.4	46.2	44.3	43.4
85°	50.9	32.0	29.2	27.3	27.3
87.5°	21.7	14.1	13.2	12.3	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)