

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: P334237

Luminaire Tested: **S124RDS-S795D835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334237  
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: S124RDS-S795D835-4F0-1E-UDD-F  
Description: DEFINE 4 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 795 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3017.7 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Direct

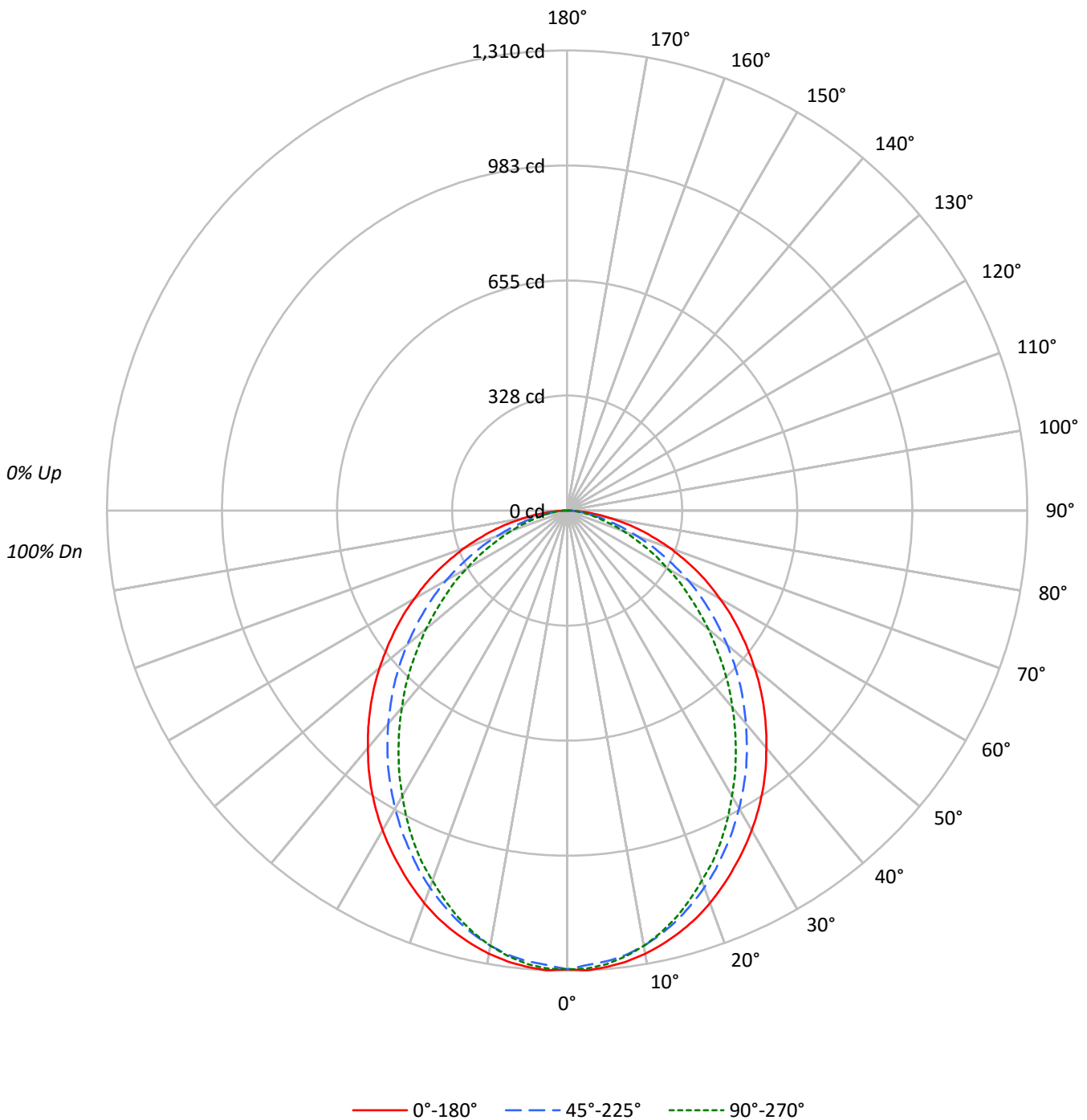
Input Watts (W): 26.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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°	10543	10543	10543
5°	10567	10438	10503
10°	10501	10312	10312
15°	10380	10096	10021
20°	10215	9811	9631
25°	10003	9478	9237
30°	9797	9126	8744
35°	9569	8761	8249
40°	9295	8346	7714
45°	9042	7935	7170
50°	8754	7460	6594
55°	8445	6967	5968
60°	8105	6426	5328
65°	7794	5750	4699
70°	7341	5004	3989
75°	6769	4148	3244
80°	5904	3161	2975
85°	5002	2871	2686



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.8	4.1
10°-20°	342.4	11.3
20°-30°	494.4	16.4
30°-40°	560.3	18.6
40°-50°	541.0	17.9
50°-60°	449.7	14.9
60°-70°	310.4	10.3
70°-80°	156.9	5.2
80°-90°	39.8	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°	959.6	31.8
0°-40°	1519.9	50.4
0°-60°	2510.5	83.2
0°-90°	3017.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3017.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1304	1300	1288	1298	1296	124
15°	1242	1233	1208	1206	1199	350
25°	1123	1105	1064	1047	1037	517
35°	971	939	889	855	837	607
45°	792	755	695	646	628	611
55°	600	560	495	443	424	537
65°	408	365	301	258	246	403
75°	217	180	133	110	104	229
85°	54	34	31	29	29	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1306	1306	1306	1306	1306
2.5°	1310	1306	1295	1306	1305
5°	1304	1300	1288	1298	1296
7.5°	1295	1291	1276	1283	1280
10°	1281	1276	1258	1262	1258
12.5°	1263	1257	1235	1237	1231
15°	1242	1233	1208	1206	1199
17.5°	1218	1205	1176	1171	1161
20°	1189	1176	1142	1134	1121
22.5°	1157	1142	1105	1092	1082
25°	1123	1105	1064	1047	1037
27.5°	1088	1066	1023	1003	989
30°	1051	1026	979	954	938
32.5°	1012	983	934	904	889
35°	971	939	889	855	837
37.5°	928	895	840	803	785
40°	882	849	792	750	732
42.5°	838	803	743	700	681
45°	792	755	695	646	628
47.5°	745	707	645	594	574
50°	697	658	594	544	525
52.5°	648	610	544	493	473
55°	600	560	495	443	424
57.5°	553	511	447	394	380
60°	502	462	398	346	330
62.5°	456	414	348	301	289
65°	408	365	301	258	246
67.5°	358	317	257	219	205
70°	311	269	212	179	169
72.5°	261	224	171	144	135
75°	217	180	133	110	104
77.5°	171	139	99	83	81
80°	127	98	68	65	64
82.5°	89	63	49	47	46
85°	54	34	31	29	29
87.5°	23	15	14	13	14
90°	0	0	0	0	0

(END OF REPORT)