

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1026612

Luminaire Tested: S124RDIP-B795D365UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026612
REPORT IS A COMBINATION OF REPORTS P999732 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D365UB40-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

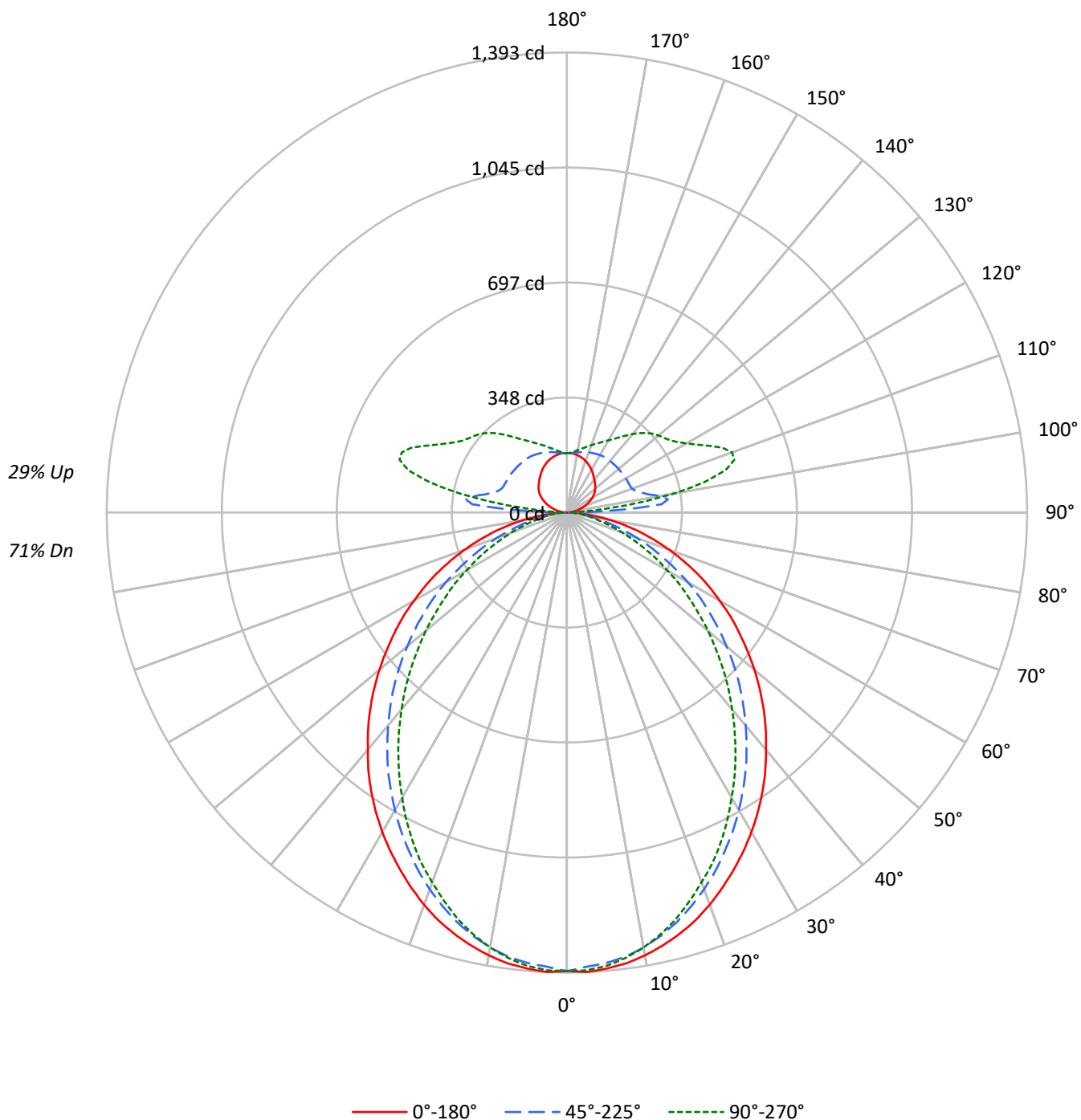
Lumens per Lamp: N/A
Luminaire Lumens: 4521.6 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
Input Voltage (V):
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: 24 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	50	30	10
RCR																				
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	71
1	103	99	95	91	97	94	90	87	84	81	79	75	73	72	67	66	65	65	65	61
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	51
3	86	76	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	44
4	79	68	60	54	75	65	58	52	59	53	48	53	48	44	48	44	41	41	41	38
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	33
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	29
7	62	50	42	36	59	48	40	35	43	37	33	40	34	31	36	32	28	28	28	26
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	26	26	26	23
9	54	42	34	29	51	40	33	28	37	31	26	34	28	25	31	26	23	23	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	21	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11322	11322	11322
5°	11323	10985	10986
10°	11227	10639	10512
15°	11072	10207	9952
20°	10870	9715	9314
25°	10617	9184	8691
30°	10371	8643	7991
35°	10099	8094	7307
40°	9776	7503	6605
45°	9473	6916	5908
50°	9128	6276	5202
55°	8755	5619	4472
60°	8343	4923	3752
65°	7942	4123	3058
70°	7376	3282	2338
75°	6648	2388	1635
80°	5552	1466	1175
85°	4177	846	646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9473 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	2.9
10°-20°	364.0	8.1
20°-30°	525.5	11.6
30°-40°	595.6	13.2
40°-50°	575.1	12.7
50°-60°	478.1	10.6
60°-70°	330.0	7.3
70°-80°	166.8	3.7
80°-90°	43.0	1.0
90°-100°	133.6	3.0
100°-110°	271.8	6.0
110°-120°	242.3	5.4
120°-130°	203.5	4.5
130°-140°	169.8	3.8
140°-150°	129.7	2.9
150°-160°	91.2	2.0
160°-170°	53.6	1.2
170°-180°	17.4	0.4
0°-30°	1020.1	22.6
0°-40°	1615.7	35.7
0°-60°	2668.9	59.0
0°-90°	3208.7	71.0
90°-120°	647.7	14.3
90°-150°	1150.7	25.4
90°-180°	1313.0	29.0
0°-180°	4521.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1386	1382	1369	1380	1378	132
15°	1320	1311	1284	1282	1275	372
25°	1194	1175	1131	1113	1102	550
35°	1032	998	945	909	890	645
45°	842	803	739	687	668	649
55°	638	595	526	471	451	571
65°	434	388	320	274	262	428
75°	231	191	141	117	111	243
85°	57	36	33	31	31	63
90°	0	3	6	7	7	4
95°	12	37	288	143	86	13
105°	41	60	232	499	497	44
115°	73	91	207	397	478	72
125°	101	121	206	338	381	90
135°	120	144	204	300	341	93
145°	139	159	203	253	278	87
155°	158	171	197	223	233	73
165°	172	177	189	200	203	49
175°	180	180	181	184	183	17
180°	180	180	180	180	180	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.4	1388.4	1388.4	1388.4	1388.4
2.5°	1392.6	1388.4	1376.7	1388.4	1387.3
5°	1386.3	1382.0	1369.2	1379.9	1377.7
7.5°	1376.7	1372.4	1356.5	1363.9	1360.7
10°	1361.8	1356.5	1337.4	1341.6	1337.4
12.5°	1342.7	1336.3	1312.9	1315.0	1308.6
15°	1320.3	1310.8	1284.2	1282.1	1274.6
17.5°	1294.8	1281.0	1250.2	1244.9	1234.2
20°	1264.0	1250.2	1214.0	1205.5	1191.7
22.5°	1230.0	1214.0	1174.7	1160.9	1150.3
25°	1193.8	1174.7	1131.1	1113.0	1102.4
27.5°	1156.6	1133.2	1087.5	1066.3	1051.4
30°	1117.3	1090.7	1040.8	1014.2	997.2
32.5°	1075.8	1045.0	992.9	961.0	945.1
35°	1032.2	998.2	945.1	908.9	889.8
37.5°	986.5	951.5	893.0	853.7	834.5
40°	937.6	902.6	842.0	797.3	778.2
42.5°	890.9	853.7	789.9	744.2	724.0
45°	842.0	802.6	738.8	686.7	667.6
47.5°	792.0	751.6	685.7	631.5	610.2
50°	741.0	699.5	631.5	578.3	558.1
52.5°	688.9	648.5	578.3	524.1	502.8
55°	637.8	595.3	526.2	470.9	450.7
57.5°	587.9	543.2	475.2	418.9	404.0
60°	533.7	491.1	423.1	367.8	350.8
62.5°	484.8	440.1	370.0	320.0	307.2
65°	433.7	388.0	320.0	274.3	261.5
67.5°	380.6	337.0	273.2	232.8	217.9
70°	330.6	286.0	225.4	190.3	179.7
72.5°	277.5	238.1	181.8	153.1	143.5
75°	230.7	191.4	141.4	116.9	110.6
77.5°	181.8	147.8	105.2	88.2	86.1
80°	135.0	104.2	72.3	69.1	68.0
82.5°	94.6	67.0	52.1	50.0	48.9
85°	57.4	36.1	33.0	30.8	30.8
87.5°	24.5	15.9	14.9	13.8	14.9
90°	0.4	2.8	6.4	7.1	7.4
92.5°	4.9	27.2	138.6	45.8	32.2
95°	11.7	36.8	288.1	142.6	86.2
97.5°	19.4	40.6	308.2	291.2	207.1
100°	26.9	46.0	284.2	403.0	324.1
102.5°	33.9	52.3	254.1	472.9	425.9
105°	41.4	59.9	231.9	499.2	497.3
107.5°	49.5	67.7	217.4	491.2	531.2
110°	57.6	75.4	210.7	463.0	531.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.4	83.2	207.5	428.4	511.1
115°	72.8	91.4	206.8	397.2	477.5
117.5°	80.6	99.0	206.4	372.8	444.6
120°	88.4	106.4	206.4	356.4	417.8
122.5°	95.4	113.6	206.1	345.7	396.6
125°	101.4	120.6	205.7	338.1	381.0
127.5°	107.1	126.8	205.0	330.8	371.1
130°	111.7	133.0	204.6	322.2	362.6
132.5°	116.3	138.4	204.3	312.0	353.1
135°	120.5	143.5	203.9	300.0	340.7
137.5°	124.8	147.9	203.9	287.4	326.2
140°	129.4	152.0	203.6	275.0	310.3
142.5°	134.3	155.7	203.6	263.5	293.4
145°	138.9	159.0	202.9	253.0	278.2
147.5°	144.2	162.2	201.8	244.4	264.0
150°	149.2	165.2	200.8	236.4	252.4
152.5°	153.7	168.1	199.0	229.8	241.8
155°	158.0	170.6	197.2	223.4	232.9
157.5°	162.2	172.8	195.5	217.4	224.8
160°	166.1	174.8	193.3	211.4	217.4
162.5°	169.7	176.4	191.2	205.6	210.3
165°	172.1	177.4	189.1	200.2	203.2
167.5°	175.0	178.3	187.0	195.6	197.6
170°	176.7	179.0	184.9	191.0	192.3
172.5°	178.5	179.6	182.7	187.0	187.0
175°	179.6	179.9	181.3	183.8	183.1
177.5°	180.3	179.9	180.3	181.5	180.3
180°	179.9	179.9	179.9	179.9	179.9

(END OF REPORT)