

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: P1025033

Luminaire Tested: S124DIP-B1195D1035UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025033
REPORT IS A COMBINATION OF REPORTS P995423 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1035UB27-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

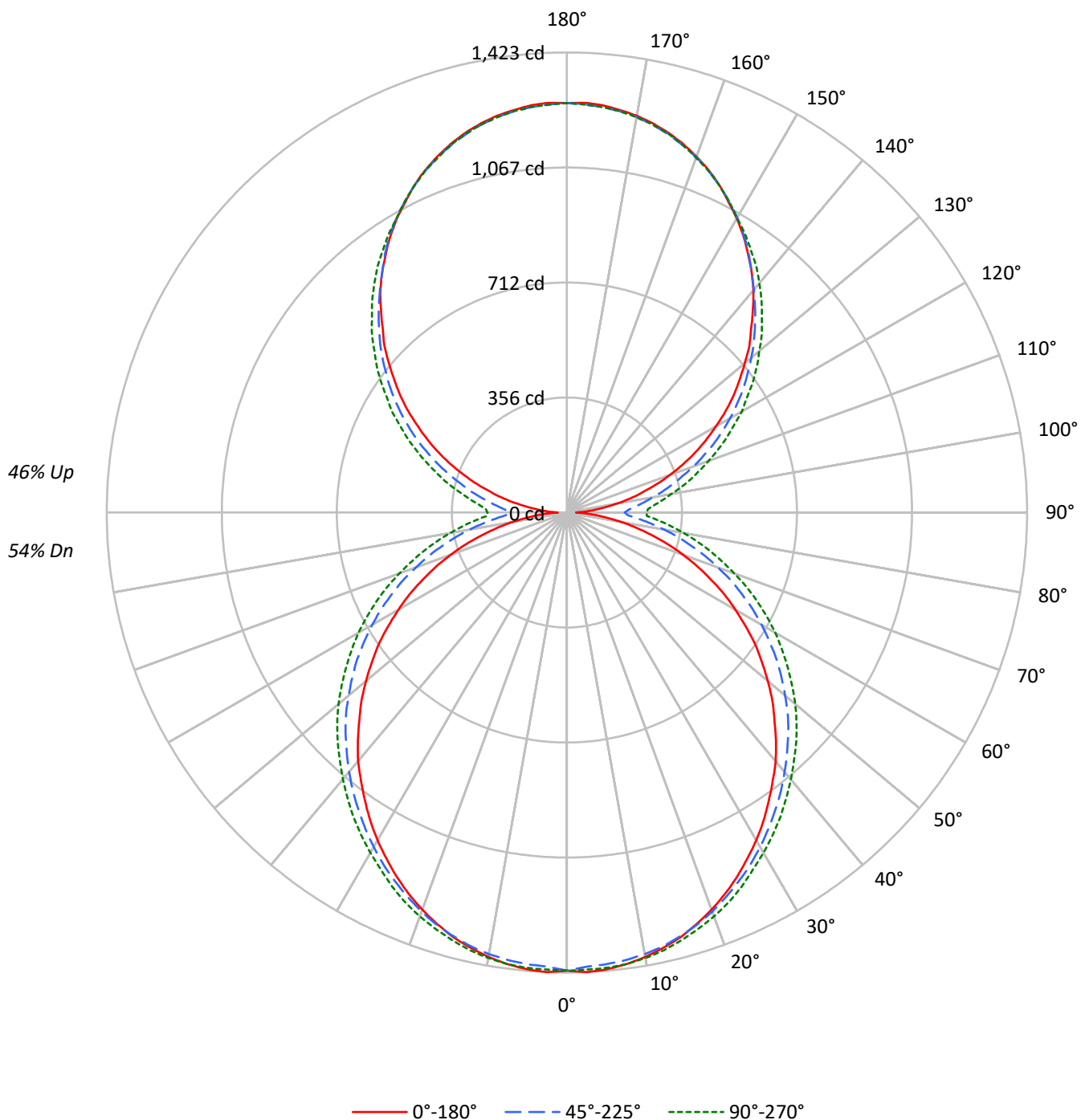
Lumens per Lamp: N/A
Luminaire Lumens: 8348.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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

TEST NUMBER: P1025033

CATALOG NUMBER: S124DIP-B1195D1035UB27-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1025033

CATALOG NUMBER: S124DIP-B1195D1035UB27-4F0-XX-W2A-D1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		72	72	72		59
1	98	93	88	84	90	86	82	79	73	70	68		62	59	58		51
2	88	80	74	68	81	74	69	64	63	59	55		53	50	47		44
3	80	70	62	56	74	65	58	53	56	50	46		47	43	39		39
4	73	62	54	47	67	57	50	44	49	43	39		41	37	33		34
5	67	55	46	40	62	51	44	38	44	38	33		37	32	29		31
6	62	49	41	35	57	46	38	33	39	33	29		33	29	25		28
7	57	44	36	30	53	41	34	29	36	30	25		30	26	22		25
8	53	40	32	27	49	38	30	25	32	27	22		28	23	20		23
9	49	37	29	24	46	34	27	22	30	24	20		25	21	18		21
10	46	34	26	21	43	31	25	20	27	22	18		24	19	16		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11555	11555	11555
5°	11586	11254	11274
10°	11511	11032	11000
15°	11403	10783	10692
20°	11244	10513	10393
25°	11064	10216	10070
30°	10869	9922	9740
35°	10649	9621	9447
40°	10472	9331	9144
45°	10211	9060	8875
50°	9988	8752	8592
55°	9758	8456	8266
60°	9401	8086	7959
65°	9008	7688	7590
70°	8531	7233	7163
75°	7864	6726	6757
80°	7115	6210	6331
85°	6120	5691	5986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10211 cd/sqm

TEST NUMBER: P1025033

CATALOG NUMBER: S124DIP-B1195D1035UB27-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.6
10°-20°	384.7	4.6
20°-30°	581.6	7.0
30°-40°	703.7	8.4
40°-50°	743.9	8.9
50°-60°	700.1	8.4
60°-70°	581.0	7.0
70°-80°	407.7	4.9
80°-90°	232.5	2.8
90°-100°	219.4	2.6
100°-110°	348.6	4.2
110°-120°	488.1	5.8
120°-130°	592.3	7.1
130°-140°	638.8	7.7
140°-150°	614.9	7.4
150°-160°	514.4	6.2
160°-170°	342.3	4.1
170°-180°	119.8	1.4
0°-30°	1100.6	13.2
0°-40°	1804.2	21.6
0°-60°	3248.2	38.9
0°-90°	4469.4	53.5
90°-120°	1056.1	12.7
90°-150°	2902.1	34.8
90°-180°	3879.0	46.5
0°-180°	8348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1418	1414	1403	1415	1414	135
15°	1360	1361	1357	1371	1369	383
25°	1244	1254	1258	1276	1277	573
35°	1088	1108	1123	1146	1150	682
45°	908	938	968	995	1003	701
55°	711	744	792	824	833	633
65°	492	543	597	636	649	488
75°	273	332	398	443	457	290
85°	84	151	222	270	286	88
90°	28	103	179	230	245	22
95°	79	141	212	258	273	80
105°	242	275	338	380	396	258
115°	437	451	500	534	544	431
125°	628	627	665	694	701	560
135°	806	811	822	846	852	624
145°	976	979	980	988	992	611
155°	1117	1117	1116	1120	1116	514
165°	1216	1213	1211	1217	1213	343
175°	1265	1260	1259	1266	1259	120
180°	1267	1267	1267	1267	1267	

TEST NUMBER: P1025033

CATALOG NUMBER: S124DIP-B1195D1035UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.0	1417.0	1417.0	1417.0	1417.0
2.5°	1423.3	1418.5	1405.9	1417.0	1415.4
5°	1418.5	1413.8	1402.7	1415.4	1413.8
7.5°	1409.0	1405.9	1396.3	1410.6	1409.0
10°	1396.3	1394.7	1386.8	1401.1	1399.5
12.5°	1378.9	1378.9	1374.1	1386.8	1386.8
15°	1359.8	1361.4	1356.7	1370.9	1369.4
17.5°	1334.5	1339.2	1337.6	1351.9	1350.3
20°	1307.5	1312.2	1313.8	1329.7	1329.7
22.5°	1277.3	1283.7	1286.8	1302.7	1305.9
25°	1244.0	1253.5	1258.3	1275.7	1277.3
27.5°	1207.5	1221.8	1228.1	1244.0	1245.6
30°	1171.0	1183.7	1194.8	1212.3	1215.4
32.5°	1131.3	1147.2	1159.9	1180.5	1183.7
35°	1088.5	1107.5	1123.4	1145.6	1150.4
37.5°	1045.7	1067.9	1086.9	1109.1	1113.9
40°	1004.4	1025.0	1047.2	1071.1	1077.4
42.5°	956.8	980.6	1007.6	1034.6	1039.3
45°	907.6	937.8	967.9	994.9	1002.8
47.5°	861.6	891.7	926.7	953.6	963.2
50°	810.8	845.7	880.6	912.4	921.9
52.5°	760.0	795.0	836.2	867.9	877.5
55°	710.9	744.2	791.8	823.5	833.0
57.5°	655.3	696.6	742.6	780.7	788.6
60°	601.4	642.6	695.0	731.5	744.2
62.5°	549.0	595.0	647.4	683.9	696.6
65°	491.9	542.7	596.6	636.3	649.0
67.5°	437.9	491.9	549.0	588.7	601.4
70°	382.4	436.4	496.7	539.5	550.6
72.5°	328.5	384.0	449.0	490.3	503.0
75°	272.9	331.6	398.3	442.7	457.0
77.5°	220.6	282.4	352.3	396.7	412.6
80°	173.0	236.4	306.2	353.8	366.5
82.5°	125.4	192.0	261.8	311.0	325.3
85°	84.1	150.7	222.1	269.7	285.6
87.5°	52.4	117.4	187.2	233.3	247.5
90°	28.3	102.6	178.7	230.5	245.2
92.5°	49.3	117.5	190.7	238.0	251.7
95°	79.4	140.6	212.4	258.3	272.6
97.5°	113.0	167.0	239.8	285.0	299.2
100°	154.6	199.8	270.5	315.2	326.3
102.5°	199.7	235.6	303.7	347.9	361.5
105°	242.5	275.2	337.8	380.5	396.1
107.5°	290.5	318.5	375.0	418.6	428.7
110°	337.9	362.1	416.6	451.1	466.8

TEST NUMBER: P1025033

CATALOG NUMBER: S124DIP-B1195D1035UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	387.3	406.3	456.7	491.6	504.3
115°	436.6	450.9	499.7	533.7	543.8
117.5°	484.6	494.1	540.7	571.2	580.9
120°	531.0	539.7	582.8	609.6	624.2
122.5°	580.9	581.9	623.8	652.6	658.8
125°	628.3	626.8	665.4	693.7	701.2
127.5°	672.4	673.8	703.6	730.2	740.3
130°	717.9	719.3	744.7	771.2	776.8
132.5°	765.9	766.3	784.3	809.3	817.9
135°	805.5	811.3	822.4	845.9	852.4
137.5°	851.5	852.8	861.1	882.0	890.9
140°	897.5	897.9	899.5	919.1	926.0
142.5°	938.1	940.0	937.4	954.9	961.2
145°	976.3	978.6	979.6	988.1	991.5
147.5°	1015.5	1018.7	1017.8	1018.4	1023.7
150°	1050.7	1053.0	1053.0	1053.0	1052.1
152.5°	1082.4	1084.4	1085.4	1088.3	1085.4
155°	1116.7	1116.7	1115.7	1119.6	1115.7
157.5°	1146.1	1144.1	1144.1	1147.1	1144.1
160°	1171.6	1170.6	1169.6	1172.5	1167.6
162.5°	1195.1	1192.1	1191.2	1197.0	1192.1
165°	1215.6	1212.7	1210.7	1216.6	1212.7
167.5°	1232.3	1228.4	1228.4	1234.3	1228.4
170°	1246.0	1241.1	1242.1	1248.0	1241.1
172.5°	1255.8	1251.9	1251.9	1258.7	1251.9
175°	1264.6	1259.7	1258.7	1265.6	1258.7
177.5°	1268.5	1263.6	1263.6	1270.5	1262.7
180°	1266.6	1266.6	1266.6	1266.6	1266.6

(END OF REPORT)