

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: P1001746

Luminaire Tested: SA4XXDIP-B795D1035UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001746
REPORT IS A COMBINATION OF REPORTS P996368 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B795D1035UB40-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

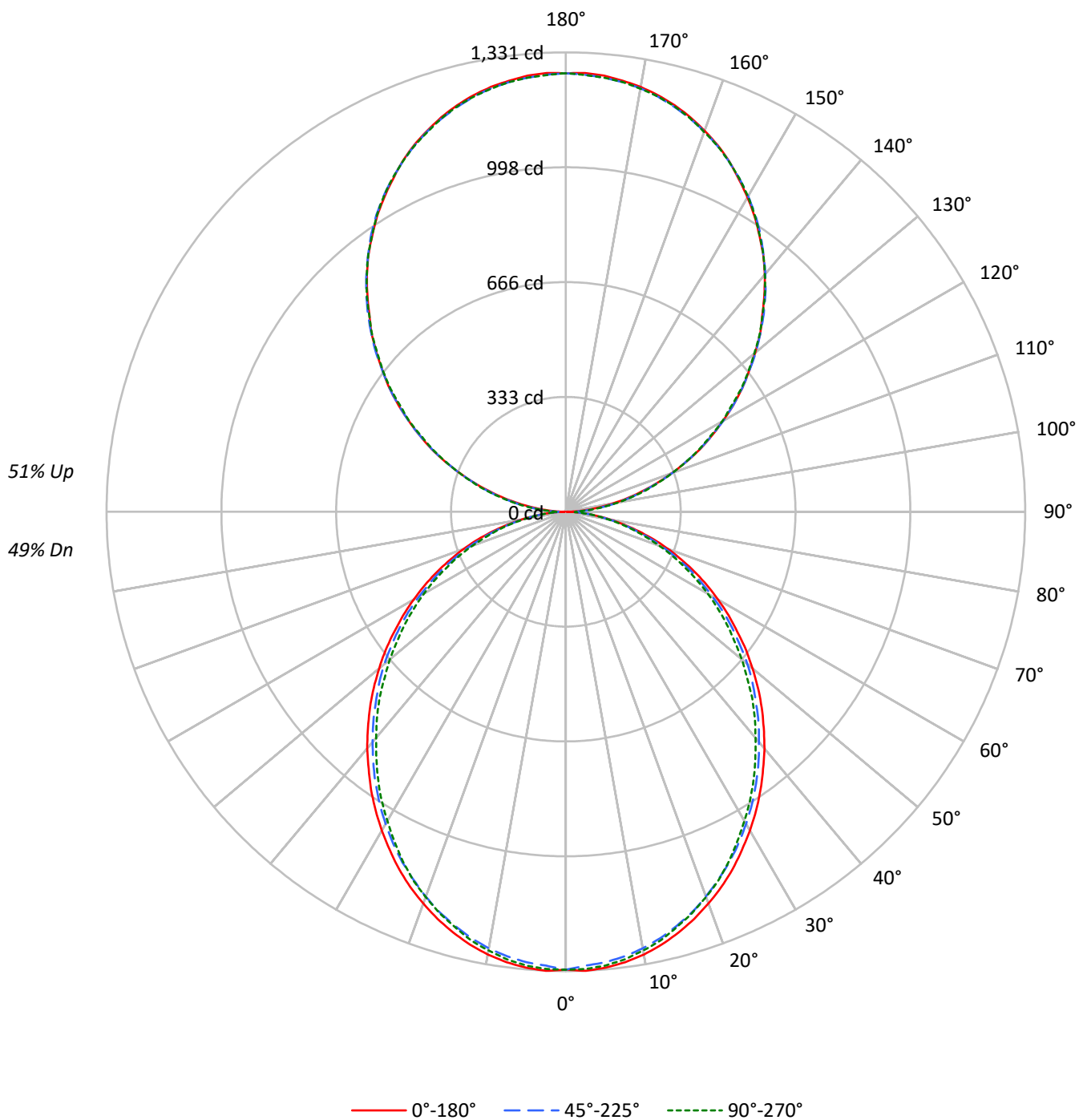
Lumens per Lamp: N/A
Luminaire Lumens: 6934.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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: P1001746

CATALOG NUMBER: SA4XXDIP-B795D1035UB40-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1001746

CATALOG NUMBER: SA4XXDIP-B795D1035UB40-4F0-XX-W2A-F1

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	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	39
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25
6	63	51	42	37	58	47	40	35	40	35	30	34	29	26	28	25	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	22	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10821	10821	10821
5°	10830	10510	10523
10°	10738	10218	10146
15°	10584	9871	9722
20°	10387	9495	9283
25°	10166	9099	8810
30°	9899	8671	8291
35°	9623	8232	7789
40°	9335	7759	7255
45°	9032	7286	6756
50°	8697	6827	6204
55°	8334	6291	5655
60°	7961	5703	5084
65°	7536	5096	4439
70°	7045	4367	3750
75°	6311	3519	3003
80°	5380	2545	2113
85°	4177	1417	1136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9032 cd/sqm

TEST NUMBER: P1001746

CATALOG NUMBER: SA4XXDIP-B795D1035UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	1.8
10°-20°	352.4	5.1
20°-30°	518.6	7.5
30°-40°	602.8	8.7
40°-50°	602.8	8.7
50°-60°	527.2	7.6
60°-70°	391.4	5.6
70°-80°	222.1	3.2
80°-90°	66.3	1.0
90°-100°	82.8	1.2
100°-110°	248.1	3.6
110°-120°	421.4	6.1
120°-130°	555.8	8.0
130°-140°	624.2	9.0
140°-150°	613.5	8.8
150°-160°	516.0	7.4
160°-170°	343.3	5.0
170°-180°	120.2	1.7
0°-30°	996.1	14.4
0°-40°	1598.9	23.1
0°-60°	2728.9	39.4
0°-90°	3408.7	49.2
90°-120°	752.3	10.8
90°-150°	2545.8	36.7
90°-180°	3525.0	50.8
0°-180°	6934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1326	1322	1310	1322	1320	126
15°	1262	1258	1242	1248	1245	356
25°	1143	1136	1121	1122	1118	526
35°	984	976	961	954	948	615
45°	803	795	778	767	763	619
55°	607	604	589	576	570	544
65°	412	406	396	385	380	407
75°	219	214	208	204	203	232
85°	57	57	55	55	54	62
90°	3	14	22	28	30	8
95°	59	68	75	78	78	64
105°	229	230	234	237	240	243
115°	428	428	426	426	424	423
125°	624	624	623	621	619	556
135°	805	811	811	809	806	623
145°	978	982	983	982	979	612
155°	1120	1120	1119	1123	1119	516
165°	1219	1216	1214	1220	1216	344
175°	1269	1264	1263	1270	1263	120
180°	1270	1270	1270	1270	1270	

TEST NUMBER: P1001746

CATALOG NUMBER: SA4XXDIP-B795D1035UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.0	1327.0	1327.0	1327.0	1327.0
2.5°	1331.3	1328.1	1316.4	1327.0	1325.9
5°	1325.9	1321.7	1310.0	1321.7	1319.6
7.5°	1316.4	1312.1	1299.4	1308.9	1307.9
10°	1302.5	1298.3	1284.5	1293.0	1290.8
12.5°	1284.5	1280.2	1265.3	1274.9	1271.7
15°	1262.1	1257.9	1241.9	1248.3	1245.1
17.5°	1236.6	1231.3	1216.4	1220.7	1218.5
20°	1207.9	1202.6	1186.6	1189.8	1187.7
22.5°	1177.1	1169.6	1153.7	1160.1	1155.8
25°	1143.0	1135.6	1120.7	1121.8	1117.5
27.5°	1104.8	1097.3	1083.5	1081.4	1076.1
30°	1066.5	1058.0	1044.2	1039.9	1034.6
32.5°	1026.1	1018.6	1003.8	998.4	993.1
35°	983.6	976.1	961.2	953.8	948.5
37.5°	938.9	932.5	916.6	909.1	901.7
40°	895.3	886.8	870.8	860.2	854.9
42.5°	848.5	844.3	826.2	813.4	810.2
45°	802.8	795.3	778.3	766.6	763.4
47.5°	754.9	749.6	733.7	720.9	712.4
50°	706.0	701.8	686.9	672.0	665.6
52.5°	658.2	652.9	636.9	624.2	615.7
55°	607.1	604.0	589.1	576.3	569.9
57.5°	559.3	556.1	541.2	528.5	522.1
60°	509.3	504.0	490.2	480.6	475.3
62.5°	460.4	456.2	441.3	432.8	427.4
65°	411.5	406.2	395.5	384.9	379.6
67.5°	361.5	357.3	346.6	336.0	334.9
70°	315.8	308.4	299.9	291.3	288.2
72.5°	266.9	259.4	253.1	246.7	243.5
75°	219.0	213.7	208.4	204.2	203.1
77.5°	172.3	170.1	164.8	163.7	160.6
80°	130.8	127.6	125.5	123.3	122.3
82.5°	90.4	89.3	89.3	88.3	87.2
85°	57.4	57.4	55.3	55.3	54.2
87.5°	27.6	26.6	25.5	25.5	25.5
90°	2.9	13.8	21.6	27.5	29.5
92.5°	25.5	38.3	43.2	46.2	47.2
95°	59.0	67.8	74.7	77.6	77.6
97.5°	94.3	102.2	110.1	114.0	114.0
100°	137.6	141.5	150.3	152.3	152.3
102.5°	182.8	183.8	191.6	194.6	195.5
105°	229.0	229.9	233.9	236.8	239.8
107.5°	277.1	278.1	279.1	283.0	282.0
110°	326.2	328.2	327.2	325.3	328.2

TEST NUMBER: P1001746

CATALOG NUMBER: SA4XXDIP-B795D1035UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	377.3	377.3	375.4	375.4	375.4
115°	428.4	428.4	426.5	425.5	424.5
117.5°	476.6	476.6	475.6	472.6	469.7
120°	524.7	528.7	525.7	520.8	522.8
122.5°	574.8	575.8	574.8	571.9	567.0
125°	624.0	624.0	623.0	621.0	619.1
127.5°	668.2	671.1	669.2	667.2	666.2
130°	715.4	718.3	718.3	716.3	712.4
132.5°	763.5	765.5	764.5	762.5	761.5
135°	804.8	810.7	810.7	808.7	805.8
137.5°	851.0	853.9	855.9	852.9	853.9
140°	897.1	899.1	899.1	898.1	897.1
142.5°	939.4	941.4	940.4	940.4	940.4
145°	977.7	981.6	982.6	981.6	978.7
147.5°	1017.0	1021.9	1021.0	1020.0	1019.0
150°	1052.4	1056.3	1056.3	1056.3	1055.3
152.5°	1085.8	1087.8	1088.8	1091.7	1088.8
155°	1120.2	1120.2	1119.2	1123.1	1119.2
157.5°	1149.7	1147.7	1147.7	1150.7	1147.7
160°	1175.2	1174.2	1173.3	1176.2	1171.3
162.5°	1198.8	1195.9	1194.9	1200.8	1195.9
165°	1219.4	1216.5	1214.5	1220.4	1216.5
167.5°	1236.1	1232.2	1232.2	1238.1	1232.2
170°	1249.9	1245.0	1246.0	1251.9	1245.0
172.5°	1259.7	1255.8	1255.8	1262.7	1255.8
175°	1268.6	1263.7	1262.7	1269.6	1262.7
177.5°	1272.5	1267.6	1267.6	1274.5	1266.6
180°	1270.5	1270.5	1270.5	1270.5	1270.5

(END OF REPORT)