

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: P1025753

Luminaire Tested: S124DIP-B795D1205UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025753
REPORT IS A COMBINATION OF REPORTS P996383 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB27-4F0-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

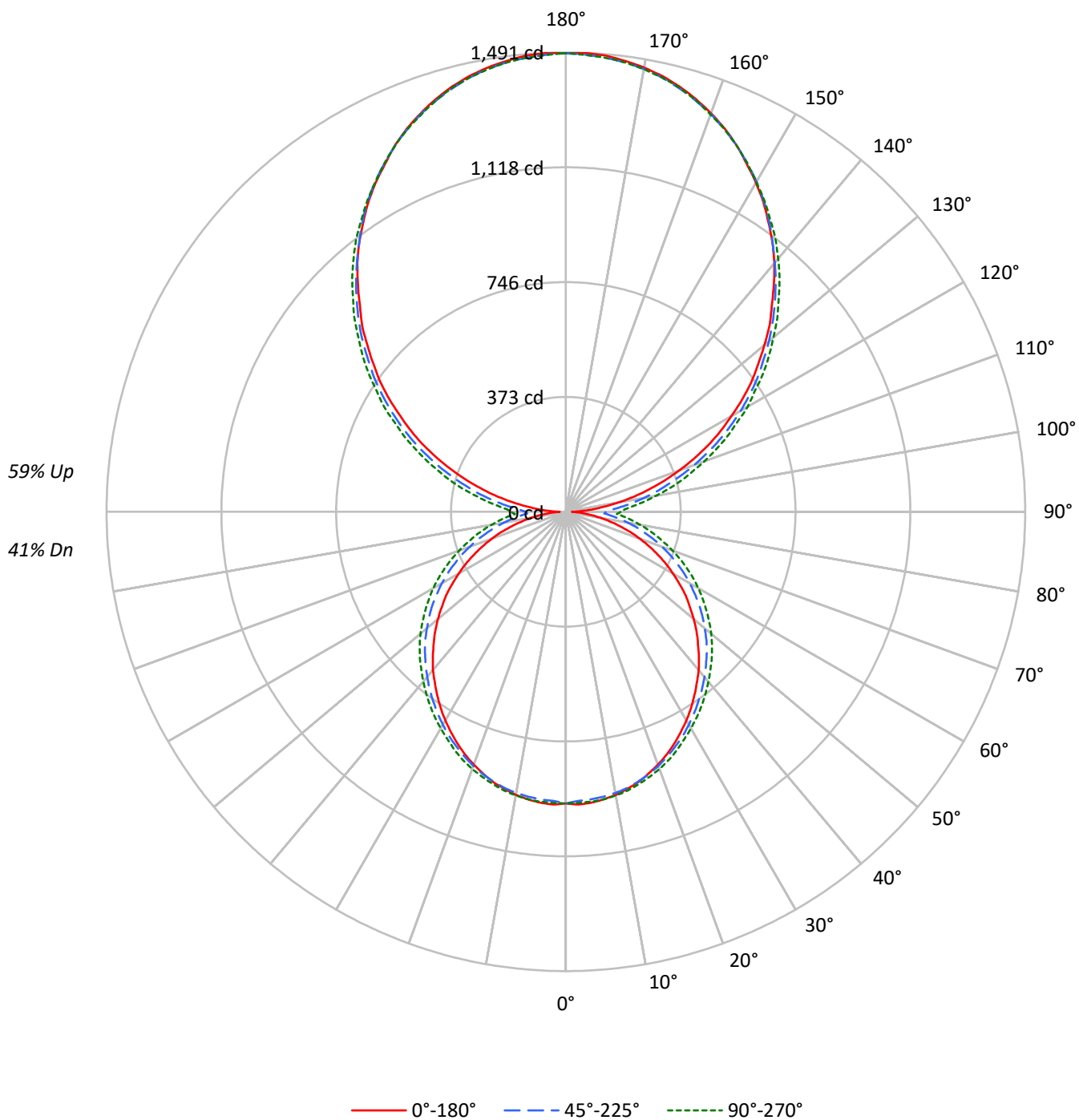
Lumens per Lamp: N/A
Luminaire Lumens: 7361.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47			41
1	95	90	86	82	86	82	79	75	67	65	62	53	52	50	41	39	38			32
2	86	78	72	67	78	71	66	61	58	54	51	46	44	41	35	33	32			27
3	78	68	61	55	71	62	56	51	51	46	42	41	37	34	31	29	27			22
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	27	25	23			19
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20			16
6	60	48	40	34	54	44	37	31	36	31	27	29	25	22	22	19	17			14
7	55	43	35	29	50	40	32	27	33	27	23	26	22	19	20	17	15			12
8	51	39	31	26	47	36	29	24	30	24	20	24	20	17	19	16	13			11
9	48	36	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12			10
10	45	32	25	20	40	30	23	19	25	20	16	20	16	14	16	13	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7721	7721	7721
5°	7742	7519	7533
10°	7692	7371	7350
15°	7619	7205	7144
20°	7513	7025	6944
25°	7393	6827	6729
30°	7263	6630	6508
35°	7116	6428	6313
40°	6997	6236	6110
45°	6824	6054	5931
50°	6674	5848	5741
55°	6520	5650	5523
60°	6281	5403	5319
65°	6020	5136	5071
70°	5700	4833	4786
75°	5256	4494	4514
80°	4754	4149	4230
85°	4090	3803	3999

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.2
10°-20°	257.0	3.5
20°-30°	388.6	5.3
30°-40°	470.2	6.4
40°-50°	497.1	6.8
50°-60°	467.8	6.4
60°-70°	388.2	5.3
70°-80°	272.4	3.7
80°-90°	156.7	2.1
90°-100°	188.4	2.6
100°-110°	358.3	4.9
110°-120°	539.1	7.3
120°-130°	676.6	9.2
130°-140°	742.3	10.1
140°-150°	720.9	9.8
150°-160°	604.5	8.2
160°-170°	402.2	5.5
170°-180°	140.8	1.9
0°-30°	735.4	10.0
0°-40°	1205.6	16.4
0°-60°	2170.4	29.5
0°-90°	2987.8	40.6
90°-120°	1085.8	14.8
90°-150°	3225.7	43.8
90°-180°	4373.0	59.4
0°-180°	7361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	948	945	937	946	945	90
15°	909	910	906	916	915	256
25°	831	838	841	852	854	383
35°	727	740	751	766	769	455
45°	606	627	647	665	670	469
55°	475	497	529	550	557	423
65°	329	363	399	425	434	326
75°	182	222	266	296	305	194
85°	56	101	148	180	191	59
90°	20	76	130	168	179	17
95°	83	128	180	212	221	86
105°	278	300	344	374	386	295
115°	508	518	549	572	578	502
125°	735	734	760	777	781	656
135°	945	952	959	974	977	731
145°	1146	1150	1151	1156	1157	718
155°	1312	1312	1311	1316	1311	604
165°	1429	1425	1423	1430	1425	403
175°	1486	1480	1479	1487	1479	141
180°	1488	1488	1488	1488	1488	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.8	946.8	946.8	946.8	946.8
2.5°	951.0	947.9	939.4	946.8	945.7
5°	947.9	944.7	937.2	945.7	944.7
7.5°	941.5	939.4	933.0	942.6	941.5
10°	933.0	931.9	926.6	936.2	935.1
12.5°	921.3	921.3	918.2	926.6	926.6
15°	908.6	909.7	906.5	916.0	915.0
17.5°	891.7	894.8	893.8	903.3	902.3
20°	873.6	876.8	877.9	888.5	888.5
22.5°	853.5	857.7	859.9	870.5	872.6
25°	831.2	837.6	840.8	852.4	853.5
27.5°	806.8	816.4	820.6	831.2	832.3
30°	782.5	790.9	798.4	810.0	812.1
32.5°	755.9	766.6	775.0	788.8	790.9
35°	727.3	740.0	750.6	765.5	768.7
37.5°	698.7	713.5	726.3	741.1	744.3
40°	671.1	684.9	699.8	715.7	719.9
42.5°	639.3	655.2	673.3	691.3	694.5
45°	606.5	626.6	646.7	664.8	670.1
47.5°	575.7	595.9	619.2	637.2	643.6
50°	541.8	565.1	588.4	609.6	616.0
52.5°	507.9	531.2	558.7	579.9	586.3
55°	475.0	497.3	529.1	550.3	556.6
57.5°	437.9	465.4	496.2	521.6	526.9
60°	401.8	429.4	464.4	488.8	497.3
62.5°	366.8	397.6	432.6	457.0	465.4
65°	328.7	362.6	398.6	425.2	433.6
67.5°	292.6	328.7	366.8	393.3	401.8
70°	255.5	291.6	331.9	360.5	367.9
72.5°	219.5	256.6	300.0	327.6	336.1
75°	182.4	221.6	266.1	295.8	305.3
77.5°	147.4	188.7	235.4	265.1	275.7
80°	115.6	158.0	204.6	236.4	244.9
82.5°	83.8	128.3	174.9	207.8	217.3
85°	56.2	100.7	148.4	180.2	190.8
87.5°	35.0	78.5	125.1	155.9	165.4
90°	20.5	75.5	130.3	167.9	178.7
92.5°	45.8	97.9	149.3	182.4	192.1
95°	82.9	128.2	179.7	211.8	221.3
97.5°	123.2	163.2	215.8	248.0	257.5
100°	172.9	205.0	256.7	287.6	295.0
102.5°	225.8	250.3	299.8	330.7	340.4
105°	277.7	300.1	344.0	373.9	385.9
107.5°	334.1	353.4	391.6	422.7	429.0
110°	390.7	407.8	443.7	465.8	477.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	449.4	462.1	494.8	518.2	526.6
115°	508.3	517.8	549.4	571.6	577.9
117.5°	564.7	571.0	601.7	620.5	625.5
120°	620.0	627.8	655.1	670.5	681.3
122.5°	678.7	679.9	707.3	725.1	726.8
125°	735.2	734.2	759.5	777.3	781.4
127.5°	787.0	789.4	808.3	825.1	831.4
130°	841.2	843.6	860.6	877.4	879.1
132.5°	897.6	898.8	910.4	926.2	931.3
135°	944.9	951.8	959.2	973.9	976.8
137.5°	999.0	1001.4	1007.9	1020.4	1026.8
140°	1053.1	1054.4	1055.4	1068.0	1072.2
142.5°	1101.6	1103.9	1101.6	1113.3	1117.5
145°	1146.5	1150.0	1151.1	1156.4	1157.1
147.5°	1192.5	1197.2	1196.0	1196.0	1199.0
150°	1234.0	1237.5	1237.5	1237.5	1236.3
152.5°	1272.0	1274.3	1275.5	1278.9	1275.5
155°	1312.3	1312.3	1311.1	1315.7	1311.1
157.5°	1346.8	1344.5	1344.5	1348.0	1344.5
160°	1376.8	1375.6	1374.5	1377.9	1372.2
162.5°	1404.4	1400.9	1399.8	1406.7	1400.9
165°	1428.6	1425.1	1422.8	1429.7	1425.1
167.5°	1448.1	1443.5	1443.5	1450.4	1443.5
170°	1464.2	1458.5	1459.6	1466.5	1458.5
172.5°	1475.8	1471.2	1471.2	1479.2	1471.2
175°	1486.1	1480.4	1479.2	1487.3	1479.2
177.5°	1490.7	1485.0	1485.0	1493.0	1483.8
180°	1488.4	1488.4	1488.4	1488.4	1488.4

(END OF REPORT)