

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: P1025754

Luminaire Tested: S124DIP-B795D1205UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025754
REPORT IS A COMBINATION OF REPORTS P996384 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB27-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

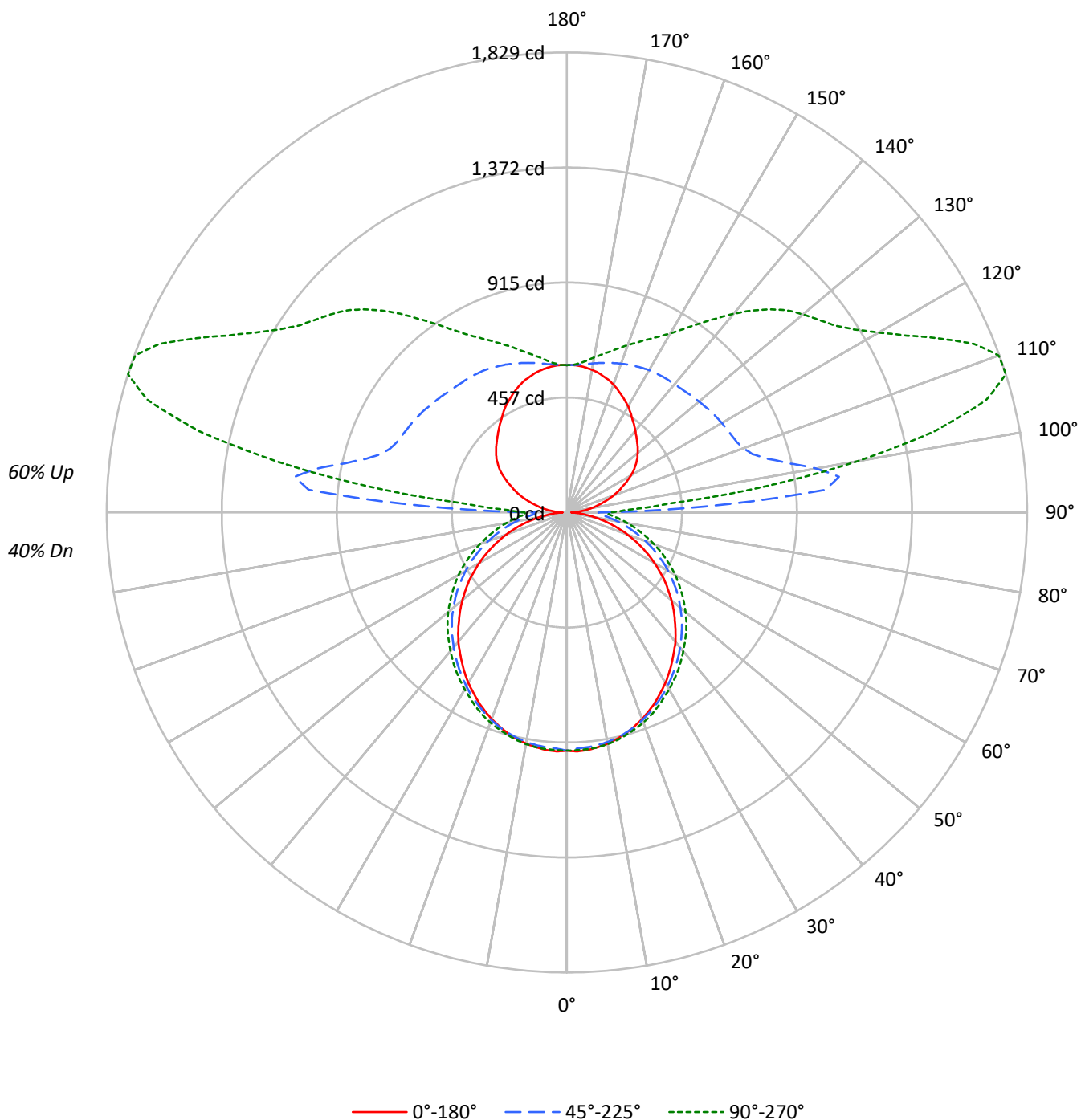
Lumens per Lamp: N/A
Luminaire Lumens: 7506.5 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	95	90	86	82	86	82	78	75	67	64	62	53	51	50	40	39	38
2	86	78	72	66	78	71	66	61	58	54	51	46	43	41	35	33	31
3	78	68	61	55	71	62	56	51	51	46	42	40	37	34	30	28	26
4	71	60	52	46	64	55	48	43	45	40	36	36	32	29	27	24	22
5	65	53	45	39	59	49	42	36	40	35	30	32	28	25	24	21	19
6	60	48	40	34	54	44	37	31	36	30	26	29	25	22	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	30	24	20	24	20	17	18	15	13
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

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	3.4
20°-30°	388.6	5.2
30°-40°	470.2	6.3
40°-50°	497.1	6.6
50°-60°	467.8	6.2
60°-70°	388.2	5.2
70°-80°	272.4	3.6
80°-90°	155.8	2.1
90°-100°	526.7	7.0
100°-110°	953.0	12.7
110°-120°	834.5	11.1
120°-130°	688.4	9.2
130°-140°	564.2	7.5
140°-150°	424.6	5.7
150°-160°	296.9	4.0
160°-170°	174.6	2.3
170°-180°	56.8	0.8
0°-30°	735.4	9.8
0°-40°	1205.6	16.1
0°-60°	2170.4	28.9
0°-90°	2986.8	39.8
90°-120°	2314.2	30.8
90°-150°	3991.3	53.2
90°-180°	4520.0	60.2
0°-180°	7506.5	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°	18	69	126	159	168	14
95°	52	168	1030	585	411	53
105°	144	226	825	1723	1725	154
115°	244	313	723	1367	1636	242
125°	335	396	700	1151	1297	299
135°	395	470	674	1004	1143	305
145°	454	518	661	831	917	285
155°	515	555	642	728	759	237
165°	561	578	616	652	662	158
175°	585	586	591	599	596	56
180°	586	586	586	586	586	

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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°	18.2	68.6	125.7	158.7	168.4
92.5°	32.0	141.6	549.9	277.4	241.6
95°	51.8	168.5	1030.4	585.4	411.3
97.5°	76.0	175.9	1090.7	1063.1	798.6
100°	99.2	188.8	1006.2	1421.6	1172.2
102.5°	122.2	205.4	903.0	1643.1	1498.5
105°	144.2	225.8	825.2	1722.6	1724.7
107.5°	170.7	248.0	772.7	1691.4	1828.9
110°	196.1	269.0	746.5	1592.9	1825.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.4	291.2	730.9	1473.8	1751.5
115°	243.5	313.4	723.3	1367.2	1635.9
117.5°	268.9	335.0	716.8	1281.4	1523.5
120°	293.1	355.0	711.5	1221.4	1429.6
122.5°	316.1	375.4	705.0	1180.9	1354.2
125°	334.6	395.7	699.7	1151.0	1297.2
127.5°	353.0	416.5	692.1	1121.0	1259.7
130°	367.0	435.5	685.6	1087.5	1225.6
132.5°	381.9	452.8	680.2	1048.8	1189.2
135°	394.7	469.5	673.7	1003.8	1142.7
137.5°	408.5	482.9	669.5	957.1	1089.1
140°	423.4	496.1	665.2	911.6	1032.0
142.5°	438.6	508.2	663.1	870.0	971.4
145°	453.5	518.0	660.8	830.6	916.6
147.5°	470.8	528.4	657.3	797.2	865.2
150°	486.9	538.2	653.9	770.2	822.0
152.5°	500.8	547.4	648.1	748.2	787.4
155°	514.6	555.4	642.4	727.6	758.6
157.5°	528.4	562.9	636.6	708.0	732.2
160°	541.1	569.2	629.7	688.4	708.0
162.5°	552.6	574.4	622.8	669.4	685.0
165°	560.6	577.9	615.9	652.2	661.9
167.5°	569.8	580.8	609.0	637.2	643.5
170°	575.6	583.1	602.1	622.2	626.3
172.5°	581.4	584.8	595.2	609.0	609.0
175°	584.8	586.0	590.6	598.6	596.3
177.5°	587.1	586.0	587.1	591.2	587.1
180°	586.0	586.0	586.0	586.0	586.0

(END OF REPORT)