

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: P1025779

Luminaire Tested: S124DIP-B795D1205UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025779
REPORT IS A COMBINATION OF REPORTS P996424 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB40-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

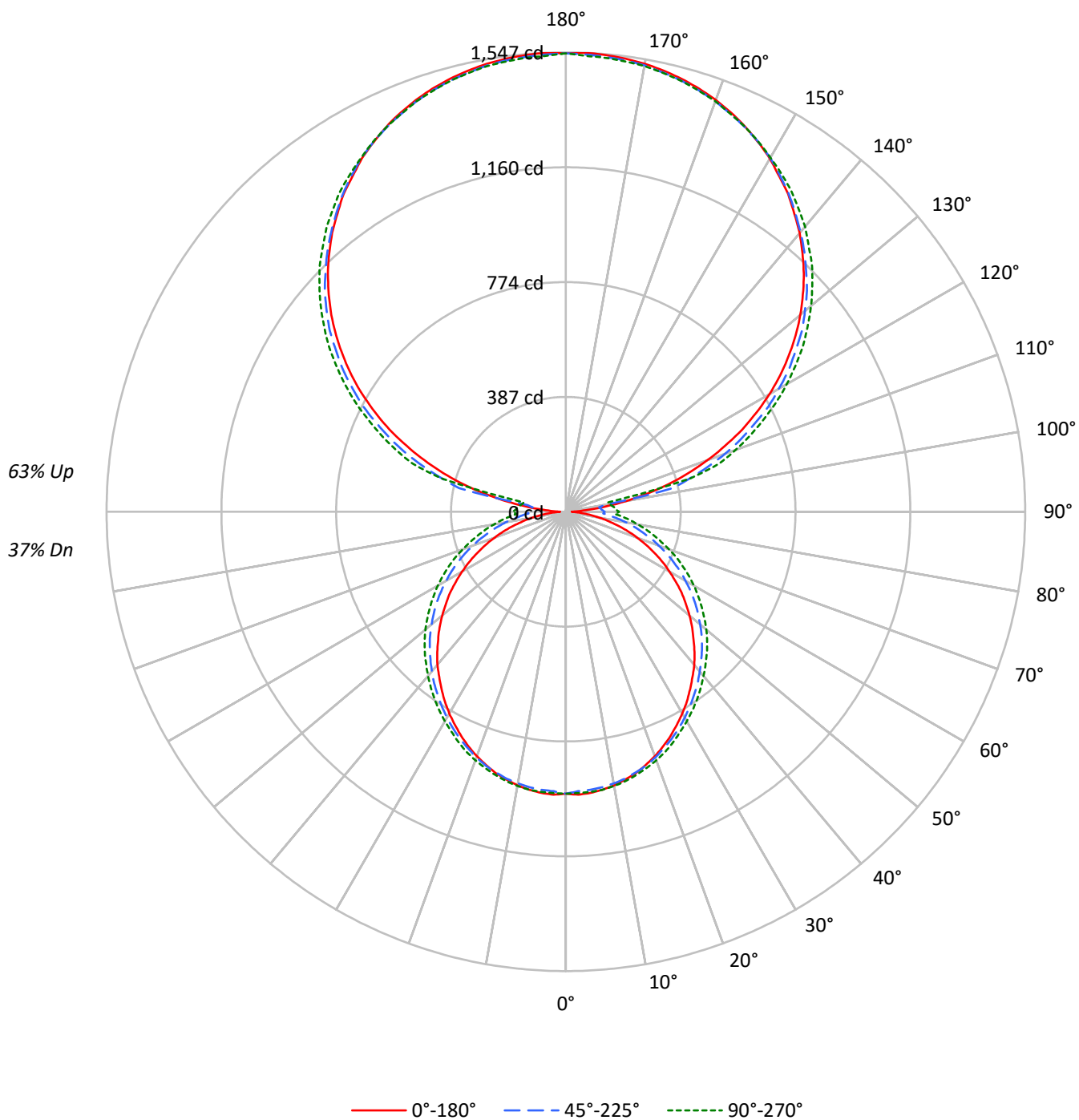
Lumens per Lamp: N/A
Luminaire Lumens: 8017.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37		
1	94	90	86	82	85	81	78	75	66	63	61	51	50	48	38	37	36	30		
2	85	78	71	66	77	71	65	61	57	53	50	45	42	40	33	31	30	24		
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25	20		
4	71	60	52	46	64	55	48	42	44	39	35	35	31	28	26	23	21	17		
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18	15		
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16	13		
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14	11		
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	15	13	10		
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	13	11	9		
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10	8		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7742	7742	7742
5°	7763	7541	7554
10°	7713	7392	7371
15°	7641	7225	7164
20°	7534	7044	6964
25°	7413	6845	6747
30°	7283	6648	6527
35°	7136	6446	6330
40°	7017	6253	6127
45°	6842	6071	5947
50°	6693	5865	5757
55°	6538	5665	5539
60°	6300	5418	5333
65°	6036	5152	5085
70°	5716	4846	4799
75°	5271	4507	4527
80°	4767	4162	4242
85°	4097	3813	4012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6842 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.1
10°-20°	257.7	3.2
20°-30°	389.7	4.9
30°-40°	471.5	5.9
40°-50°	498.4	6.2
50°-60°	469.1	5.9
60°-70°	389.3	4.9
70°-80°	273.2	3.4
80°-90°	157.2	2.0
90°-100°	142.9	1.8
100°-110°	405.4	5.1
110°-120°	690.0	8.6
120°-130°	843.7	10.5
130°-140°	886.2	11.1
140°-150°	820.5	10.2
150°-160°	659.9	8.2
160°-170°	425.6	5.3
170°-180°	146.7	1.8
0°-30°	737.4	9.2
0°-40°	1208.9	15.1
0°-60°	2176.5	27.1
0°-90°	2996.1	37.4
90°-120°	1238.3	15.4
90°-150°	3788.8	47.3
90°-180°	5021.0	62.6
0°-180°	8017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	950	947	940	948	947	90
15°	911	912	909	919	918	257
25°	834	840	843	855	856	384
35°	729	742	753	768	771	457
45°	608	628	648	667	672	470
55°	476	499	530	552	558	424
65°	330	364	400	426	435	327
75°	183	222	267	297	306	194
85°	56	101	149	181	191	59
90°	20	76	131	168	179	15
95°	77	73	118	154	164	89
105°	357	385	430	467	434	375
115°	655	668	701	727	734	645
125°	916	920	944	968	975	819
135°	1134	1132	1145	1164	1173	874
145°	1306	1308	1308	1316	1322	816
155°	1431	1432	1428	1433	1429	660
165°	1509	1503	1503	1512	1502	426
175°	1544	1537	1538	1548	1534	147
180°	1544	1544	1544	1544	1544	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.4	949.4	949.4	949.4	949.4
2.5°	953.7	950.5	942.0	949.4	948.4
5°	950.5	947.3	939.9	948.4	947.3
7.5°	944.1	942.0	935.6	945.2	944.1
10°	935.6	934.5	929.2	938.8	937.7
12.5°	923.9	923.9	920.7	929.2	929.2
15°	911.2	912.2	909.0	918.6	917.5
17.5°	894.1	897.3	896.3	905.8	904.8
20°	876.1	879.3	880.3	891.0	891.0
22.5°	855.9	860.1	862.2	872.9	875.0
25°	833.5	839.9	843.1	854.8	855.9
27.5°	809.1	818.7	822.9	833.5	834.6
30°	784.6	793.1	800.6	812.3	814.4
32.5°	758.1	768.7	777.2	791.0	793.1
35°	729.4	742.1	752.7	767.6	770.8
37.5°	700.6	715.5	728.3	743.2	746.4
40°	673.0	686.8	701.7	717.7	721.9
42.5°	641.1	657.1	675.1	693.2	696.4
45°	608.1	628.3	648.5	666.6	671.9
47.5°	577.3	597.5	620.9	639.0	645.4
50°	543.3	566.7	590.1	611.3	617.7
52.5°	509.3	532.7	560.3	581.6	587.9
55°	476.3	498.6	530.5	551.8	558.2
57.5°	439.1	466.7	497.6	523.1	528.4
60°	403.0	430.6	465.7	490.1	498.6
62.5°	367.9	398.7	433.8	458.2	466.7
65°	329.6	363.6	399.8	426.3	434.8
67.5°	293.4	329.6	367.9	394.4	403.0
70°	256.2	292.4	332.8	361.5	368.9
72.5°	220.1	257.3	300.9	328.5	337.0
75°	182.9	222.2	266.9	296.6	306.2
77.5°	147.8	189.2	236.0	265.8	276.4
80°	115.9	158.4	205.2	237.1	245.6
82.5°	84.0	128.6	175.4	208.4	218.0
85°	56.3	101.0	148.8	180.7	191.4
87.5°	35.1	78.7	125.5	156.3	165.9
90°	20.5	75.7	130.7	168.4	179.2
92.5°	33.2	68.2	123.1	159.8	168.4
95°	77.3	73.1	117.9	153.5	164.3
97.5°	134.0	190.2	112.6	146.0	156.7
100°	201.1	249.4	131.6	140.7	149.3
102.5°	277.3	314.5	368.8	136.6	145.1
105°	357.1	385.3	430.4	467.4	434.4
107.5°	432.2	453.7	499.0	531.3	543.4
110°	507.3	525.7	569.8	596.6	608.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.1	599.8	637.2	659.5	672.6
115°	655.3	668.3	701.2	726.9	734.3
117.5°	723.4	734.4	769.8	790.9	799.4
120°	791.6	799.4	829.1	852.7	858.9
122.5°	856.3	858.6	889.6	912.0	917.1
125°	916.4	920.0	944.3	967.9	975.4
127.5°	975.3	975.4	1002.5	1020.4	1026.6
130°	1030.8	1030.9	1051.3	1071.7	1078.1
132.5°	1082.8	1084.0	1101.4	1120.6	1125.8
135°	1133.6	1132.5	1144.6	1163.9	1172.6
137.5°	1179.8	1178.8	1188.8	1207.1	1211.2
140°	1224.8	1226.1	1229.5	1246.7	1253.3
142.5°	1264.2	1268.9	1268.9	1282.9	1287.1
145°	1305.8	1308.2	1308.2	1315.7	1322.2
147.5°	1338.1	1344.0	1342.8	1345.1	1350.4
150°	1373.9	1377.5	1376.3	1376.3	1377.5
152.5°	1402.9	1406.3	1404.0	1406.3	1405.2
155°	1430.6	1431.7	1428.3	1432.9	1429.4
157.5°	1454.8	1454.8	1450.2	1456.0	1450.2
160°	1475.6	1472.1	1471.0	1477.9	1471.0
162.5°	1494.1	1489.5	1488.3	1495.2	1487.1
165°	1509.1	1503.3	1503.3	1512.5	1502.2
167.5°	1521.8	1516.0	1514.9	1525.2	1513.7
170°	1532.2	1525.2	1526.4	1535.6	1524.1
172.5°	1539.1	1532.2	1533.3	1542.6	1529.9
175°	1543.7	1536.8	1537.9	1548.3	1534.5
177.5°	1547.2	1539.1	1541.4	1550.6	1536.8
180°	1543.7	1543.7	1543.7	1543.7	1543.7

(END OF REPORT)